

VOLUME 5 - UTILITIES  
INDEX OF DRAWINGS



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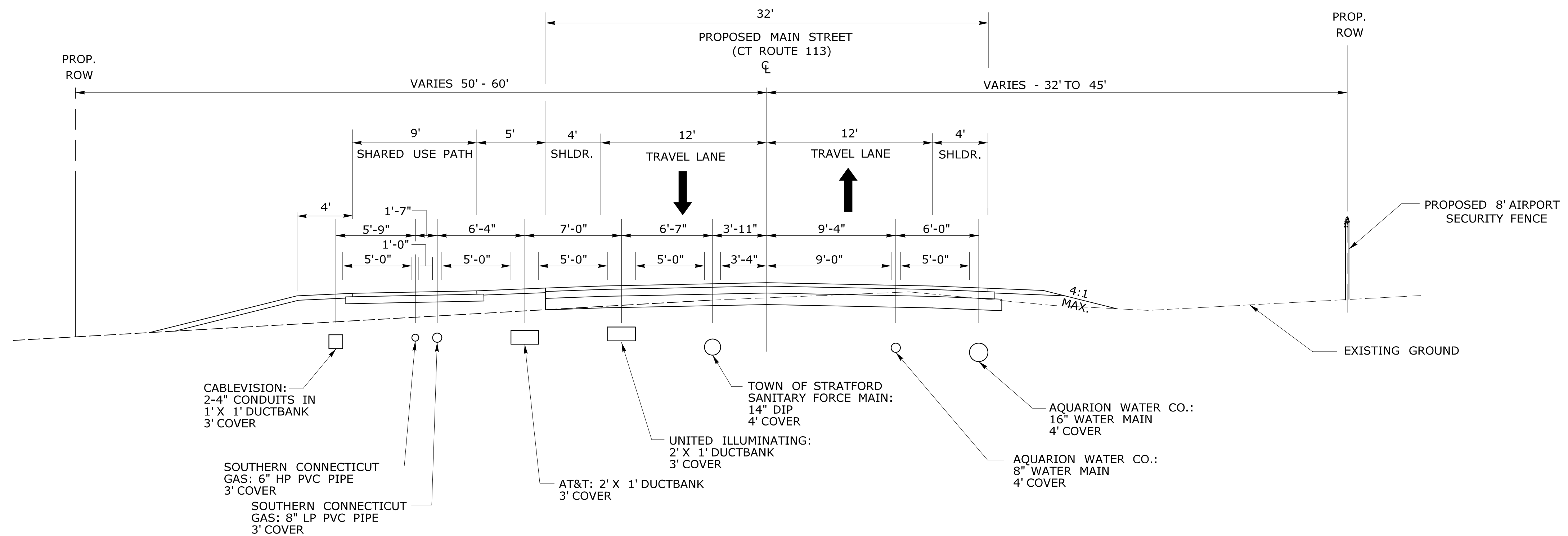
DESIGNED BY:

URS

URS CORPORATION AES  
500 ENTERPRISE DRIVE  
ROCKY HILL, CT 06067

FOR REVIEW ONLY - NOT FOR CONSTRUCTIONAL PLANS FOR REVIEW #2

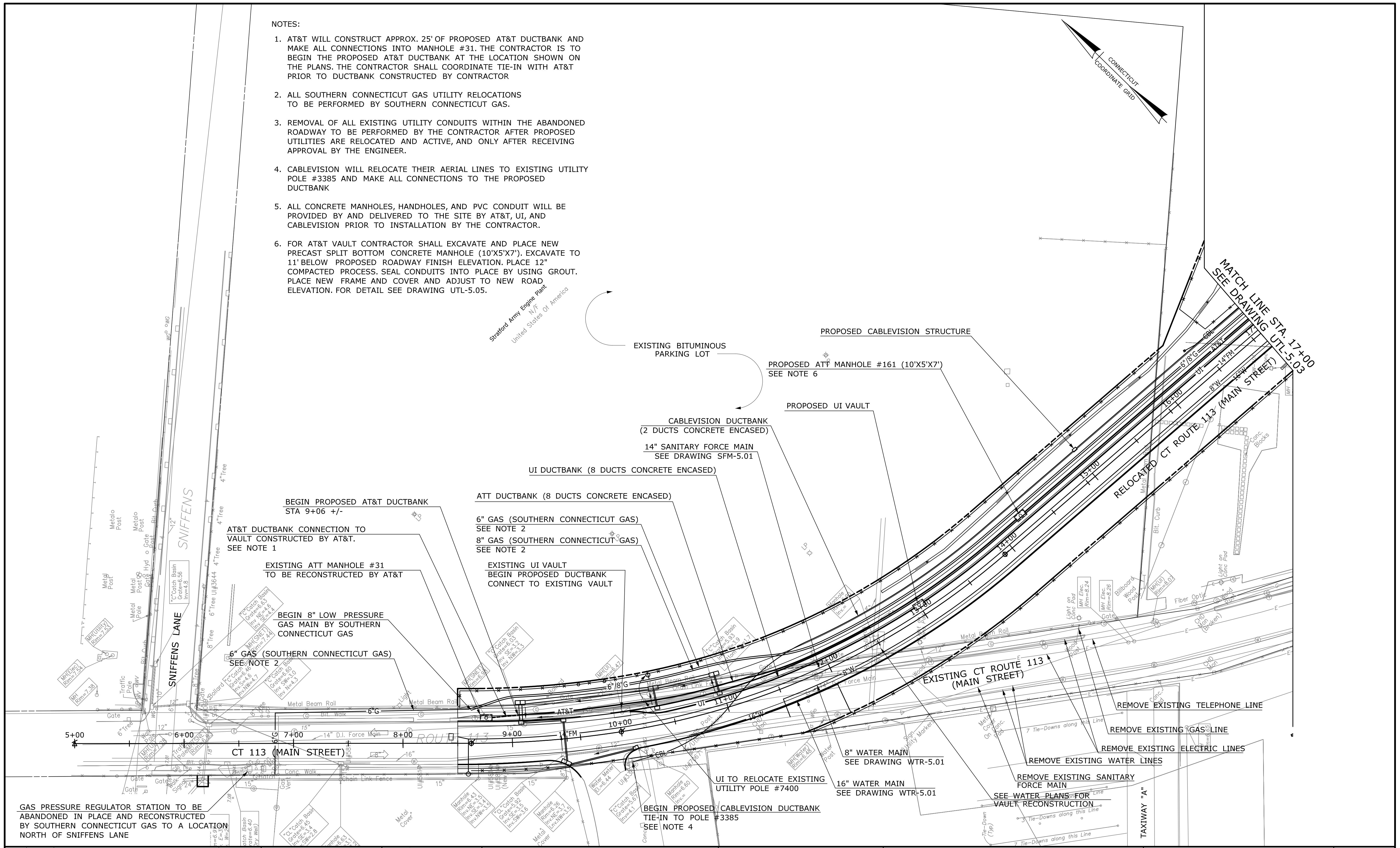
					DESIGNER/DRAFTER: JGR	 <div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div>		SIGNATURE/ BLOCK:	PROJECT TITLE:  RUNWAY SAFETY AREA PROJECT IGOR I. SIKORSKY MEMORIAL AIRPORT	TOWN:  STRATFORD	PROJECT NO. 15-336
				CHECKED BY: RIF	DRAWING NO. IND-5.01						
REV.	DATE	REVISION	DESCRIPTION	SHEET NO.	Plotted: 6/24/2013					Filename: ...\\Sheets\\VS-cover.dgn	DRAWING TITLE: VOLUME 5 - UTILITIES INDEX OF DRAWINGS




UTILITY TYPICAL SECTION  
RELOCATED MAIN STREET (CT ROUTE 113)

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- NOTES:
1. AT&T WILL CONSTRUCT APPROX. 25' OF PROPOSED AT&T DUCTBANK AND MAKE ALL CONNECTIONS INTO MANHOLE #31. THE CONTRACTOR IS TO BEGIN THE PROPOSED AT&T DUCTBANK AT THE LOCATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE TIE-IN WITH AT&T PRIOR TO DUCTBANK CONSTRUCTED BY CONTRACTOR
  2. ALL SOUTHERN CONNECTICUT GAS UTILITY RELOCATIONS TO BE PERFORMED BY SOUTHERN CONNECTICUT GAS.
  3. REMOVAL OF ALL EXISTING UTILITY CONDUITS WITHIN THE ABANDONED ROADWAY TO BE PERFORMED BY THE CONTRACTOR AFTER PROPOSED UTILITIES ARE RELOCATED AND ACTIVE, AND ONLY AFTER RECEIVING APPROVAL BY THE ENGINEER.
  4. CABLEVISION WILL RELOCATE THEIR AERIAL LINES TO EXISTING UTILITY POLE #3385 AND MAKE ALL CONNECTIONS TO THE PROPOSED DUCTBANK
  5. ALL CONCRETE MANHOLES, HANDHOLES, AND PVC CONDUIT WILL BE PROVIDED BY AND DELIVERED TO THE SITE BY AT&T, UI, AND CABLEVISION PRIOR TO INSTALLATION BY THE CONTRACTOR.
  6. FOR AT&T VAULT CONTRACTOR SHALL EXCAVATE AND PLACE NEW PRECAST SPLIT BOTTOM CONCRETE MANHOLE (10'X5'X7'). EXCAVATE TO 11' BELOW PROPOSED ROADWAY FINISH ELEVATION. PLACE 12" COMPACTED PROCESS. SEAL CONDUITS INTO PLACE BY USING GROUT. PLACE NEW FRAME AND COVER AND ADJUST TO NEW ROAD ELEVATION. FOR DETAIL SEE DRAWING UTL-5.05.

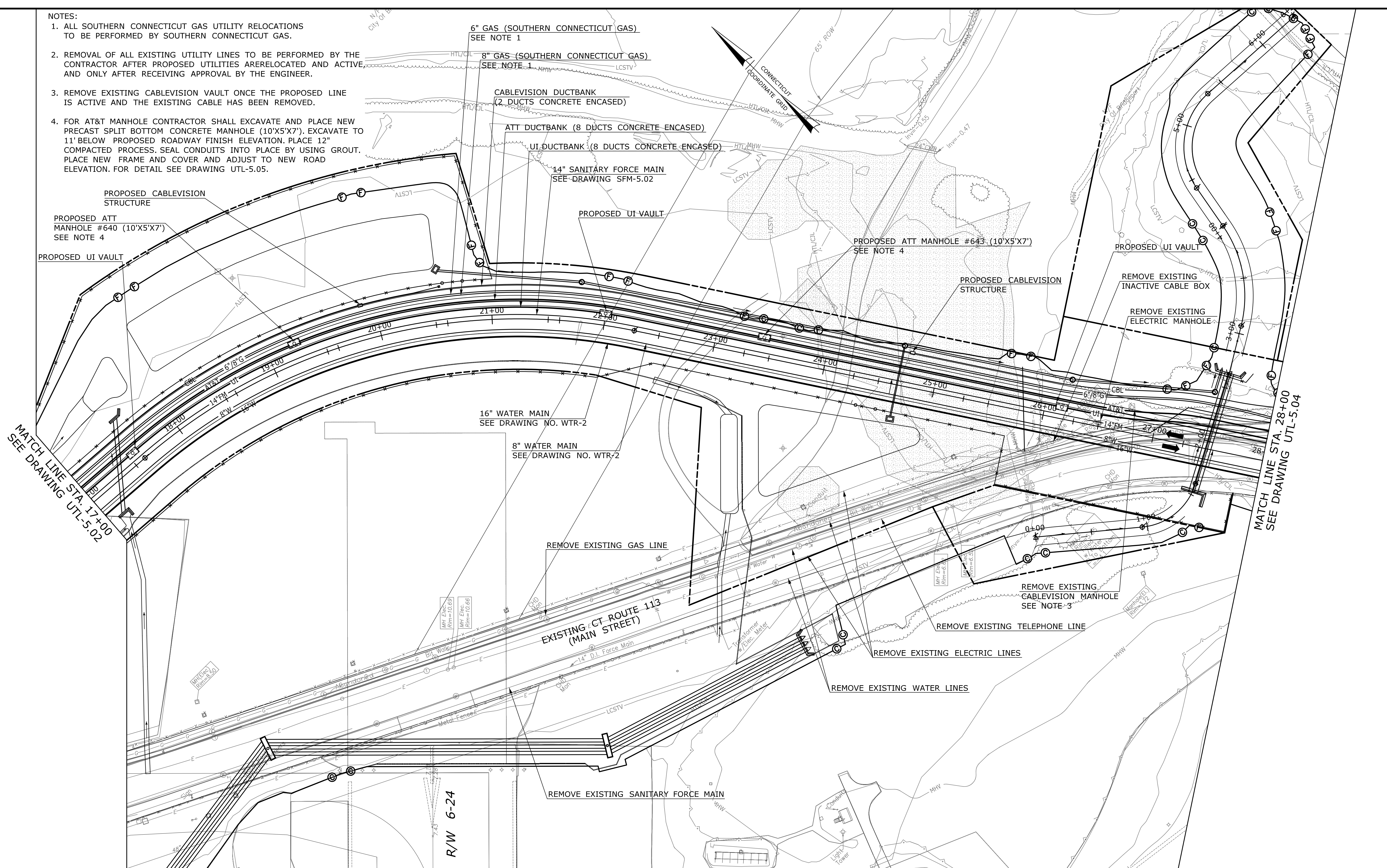


REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted: 6/24/2013	DESIGNER/DRAFTER: S. HARLEY	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	PROJECT TITLE:  RUNWAY SAFETY AREA PROJECT IGOR. I. SIKORSKY MEMORIAL AIRPORT	TOWN:  STRATFORD	PROJECT NO. 15-336
				CHECKED BY: S. MITCHELL					DRAWING NO. UTL-5.02
				SCALE IN FEET 0 40 80 SCALE 1"=40'	Filename: ...\\HW_MSH_015-336-UTL-02.dgn				SHEET NO.
								DRAWING TITLE: UTILITY PLAN - 1	



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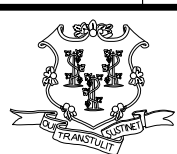
1. ALL SOUTHERN CONNECTICUT GAS UTILITY RELOCATIONS TO BE PERFORMED BY SOUTHERN CONNECTICUT GAS.
2. REMOVAL OF ALL EXISTING UTILITY LINES TO BE PERFORMED BY THE CONTRACTOR AFTER PROPOSED UTILITIES ARE RELOCATED AND ACTIVE, AND ONLY AFTER RECEIVING APPROVAL BY THE ENGINEER.
3. REMOVE EXISTING CABLEVISION VAULT ONCE THE PROPOSED LINE IS ACTIVE AND THE EXISTING CABLE HAS BEEN REMOVED.
4. FOR AT&T MANHOLE CONTRACTOR SHALL EXCAVATE AND PLACE NEW PRECAST SPLIT BOTTOM CONCRETE MANHOLE (10'X5'X7'). EXCAVATE TO 11' BELOW PROPOSED ROADWAY FINISH ELEVATION. PLACE 12" COMPACTED PROCESS. SEAL CONDUITS INTO PLACE BY USING GROUT. PLACE NEW FRAME AND COVER AND ADJUST TO NEW ROAD ELEVATION. FOR DETAIL SEE DRAWING UTL-5.05.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted: 6/24/2013

DESIGNER/DRAFTER:  
S. HARLEY  
CHECKED BY:  
S. MITCHELL  
SCALE IN FEET  
0 40 80  
SCALE 1"=40'



STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Filename: ...VHW\_MSH\_015-336-UTL-03.dgn



SIGNATURE/  
BLOCK:

PROJECT TITLE:

RUNWAY SAFETY AREA PROJECT  
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN:

STRATFORD

DRAWING TITLE:

UTILITY PLAN - 2

PROJECT NO.

15-336

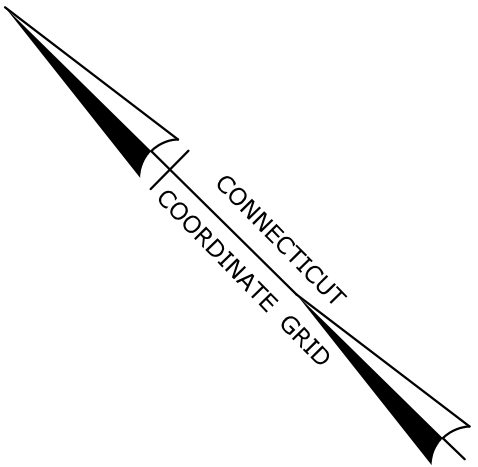
DRAWING NO.

UTL-5.03

SHEET NO.



- NOTES:
1. AT&T WILL CONSTRUCT APPROX. 25' OF PROPOSED AT&T DUCTBANK AND MAKE ALL CONNECTIONS INTO AT&T MANHOLE #32. THE CONTRACTOR IS TO BEGIN THE PROPOSED AT&T DUCTBANK AT THE LOCATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE TIE-IN WITH AT&T PRIOR TO DUCTBANK CONSTRUCTED BY CONTRACTOR
  2. ALL SOUTHERN CONNECTICUT GAS UTILITY RELOCATIONS TO BE PERFORMED BY SOUTHERN CONNECTICUT GAS.
  3. REMOVAL OF ALL EXISTING UTILITY CONDUIT WITHIN THE ABANDONED ROADWAY TO BE PERFORMED BY THE CONTRACTOR AFTER PROPOSED UTILITIES ARE RELOCATED AND ACTIVE, AND ONLY AFTER RECEIVING APPROVAL BY THE ENGINEER.



MATCH LINE STA. 28+00  
SEE DRAWING UTL-5.03

6" GAS (SOUTHERN CONNECTICUT GAS)  
SEE NOTE 2

8" GAS (SOUTHERN CONNECTICUT GAS)  
SEE NOTE 2

CABLEVISION DUCTBANK  
(2 DUCTS CONCRETE ENCASED)

14" SANITARY FORCE MAIN  
SEE DRAWING SFM-5.03

PROPOSED CABLEVISION  
STRUCTURE

END PROPOSED AT&T DUCTBANK  
STA 29+02 +/-

PROPOSED AT&T DUCTBANK TO BE INSTALLED  
BY AT&T  
SEE NOTE 1

EXISTING AT&T MANHOLE #32  
TO BE RECONSTRUCTED BY AT&T

TWO 4' X 4' X 4' REGULATOR VAULTS AND PIPING  
BY SOUTHERN CONNECTICUT GAS

EXISTING UI VAULT  
END PROPOSED DUCTBANK  
CONNECT TO EXISTING VAULT

16" WATER MAIN  
SEE DRAWING WTR-5.03

8" WATER MAIN  
SEE DRAWING WTR-5.03

EXISTING CT ROUTE 113 (MAIN STREET)

SHORT BEACH ROAD

DORNE DRIVE

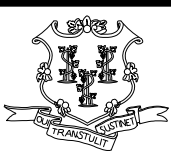
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DESIGNER/DRAFTER:  
S. HARLEY

CHECKED BY:  
S. MITCHELL

SCALE IN FEET  
0 40 80  
SCALE 1"=40'



STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Filename: ...\\HW\_MSH\_015-336-UTL-04.dgn



SIGNATURE/  
BLOCK:

PROJECT TITLE:

RUNWAY SAFETY AREA PROJECT  
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN:

STRATFORD

DRAWING TITLE:

UTILITY PLAN - 3

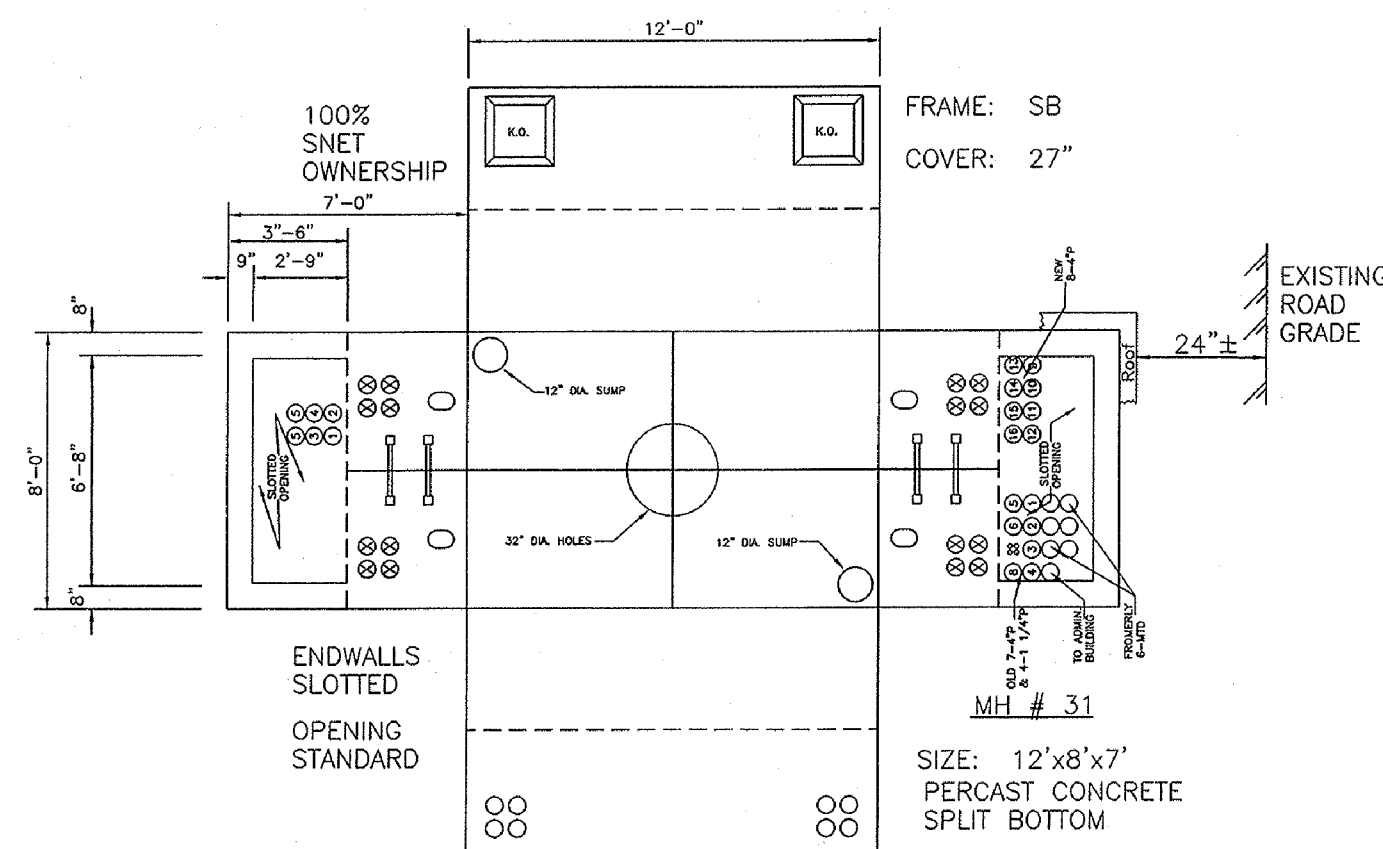
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15-336

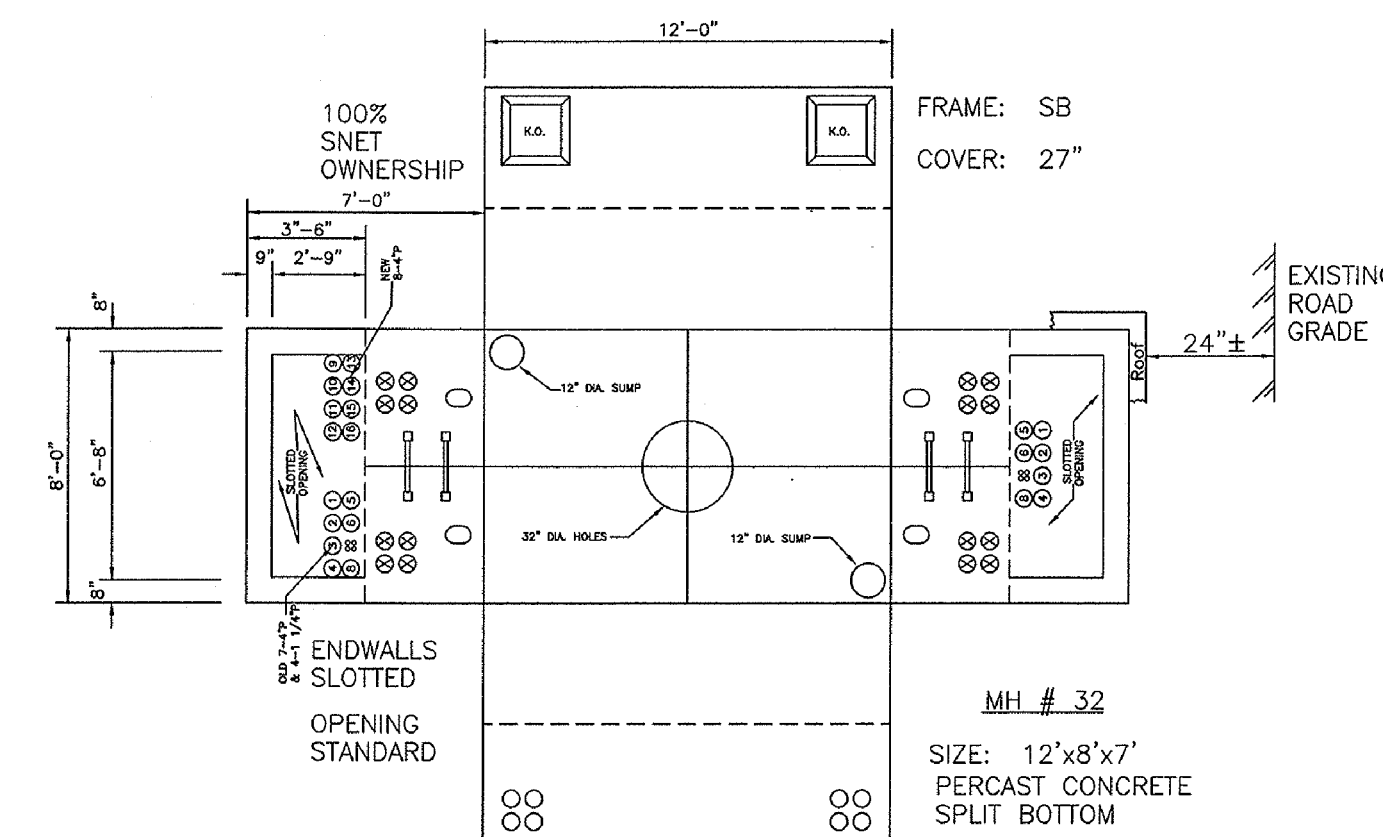
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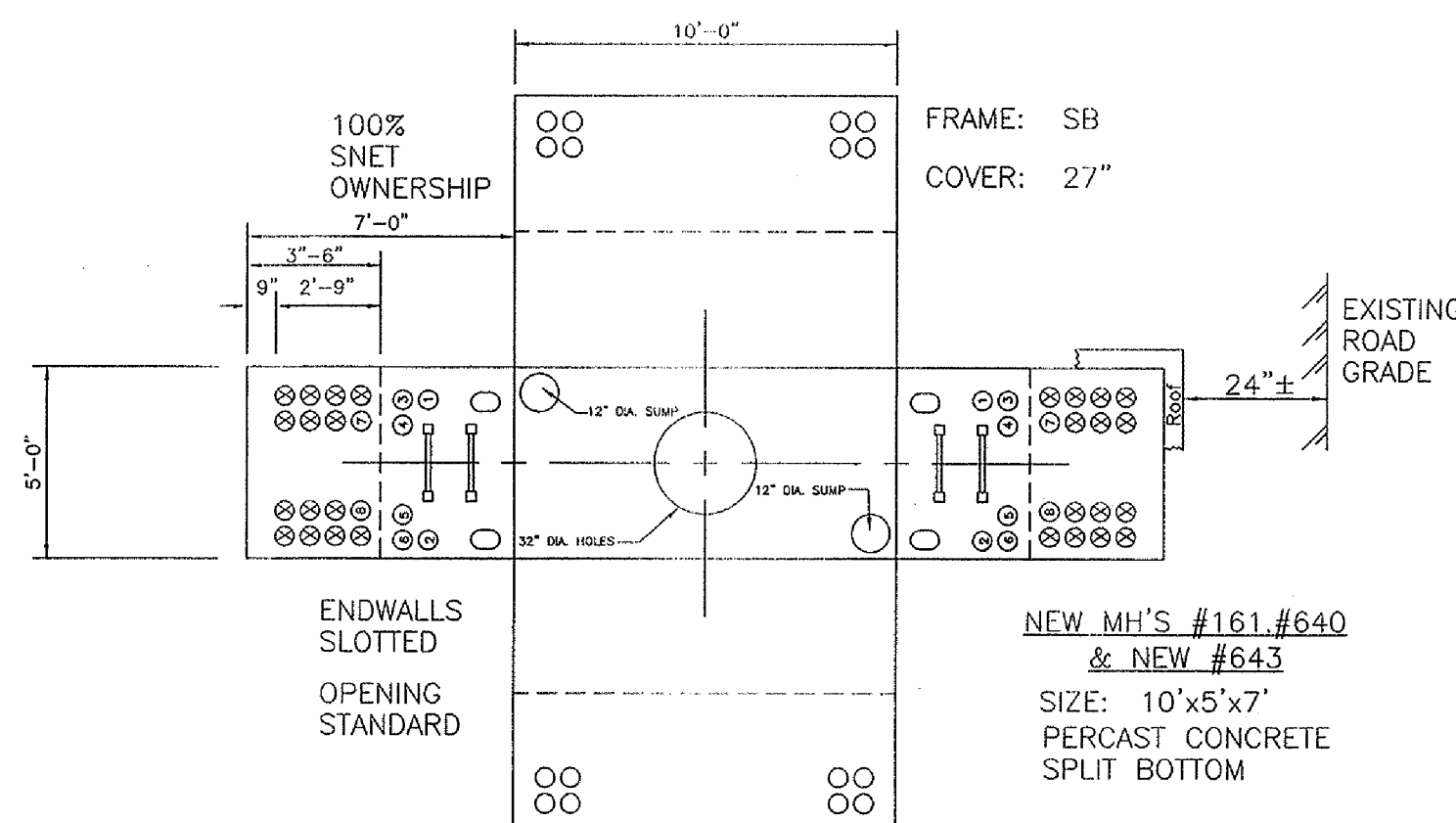
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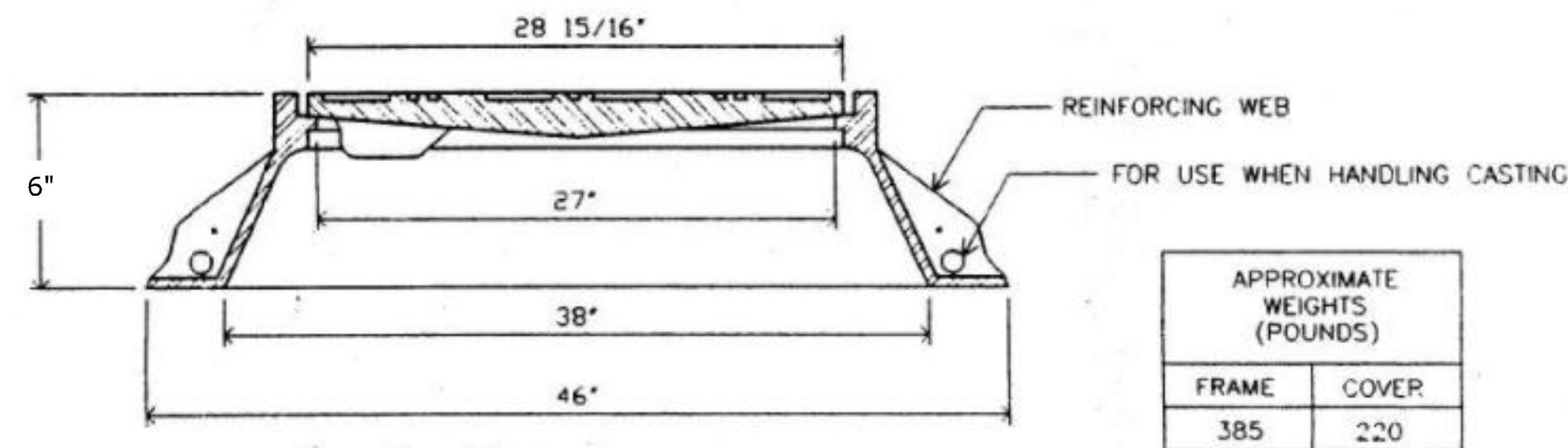
PRECAST 12'X8'X7' MANHOLE - #31  
N.T.S.



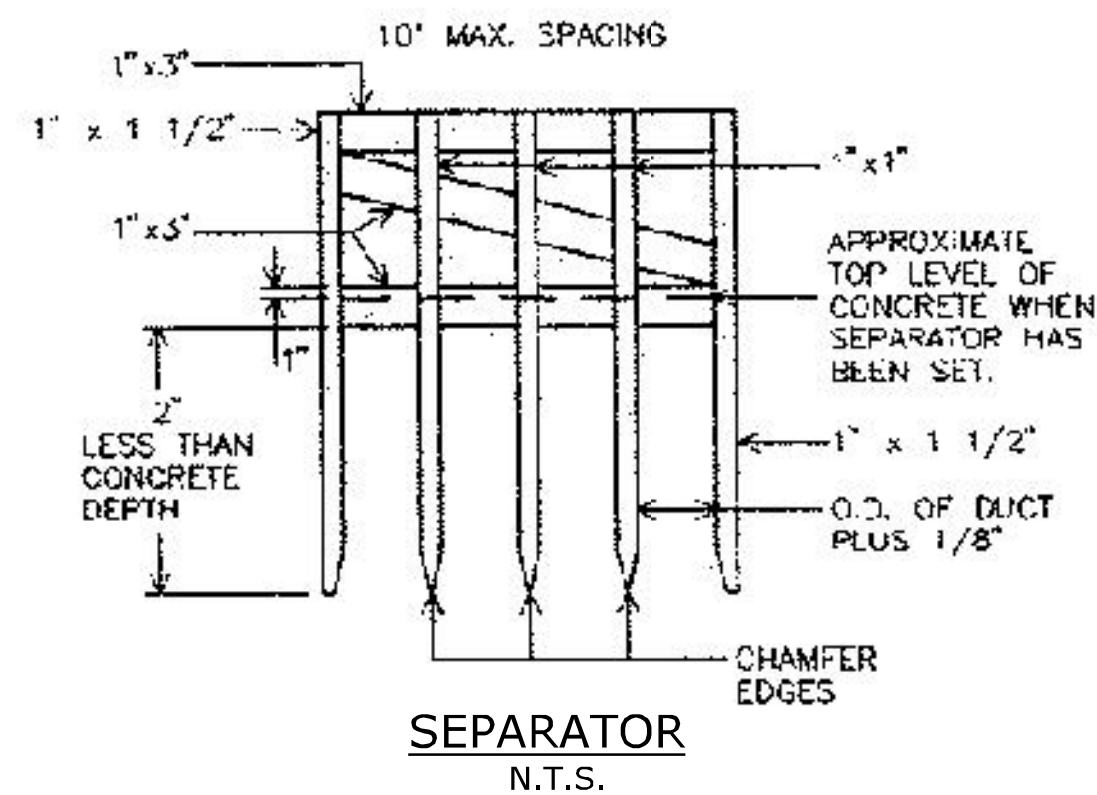
PRECAST 12'X8'X7' MANHOLE - #32  
N.T.S.



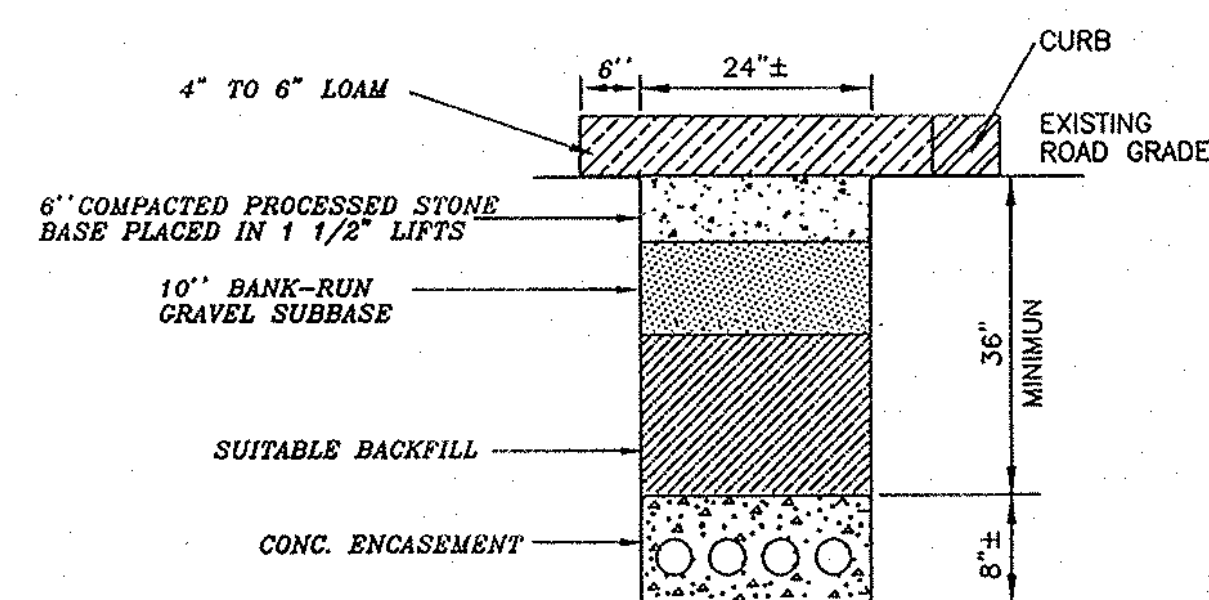
PRECAST 10'X5'X7' MANHOLE - NEW #161, #640, #643  
N.T.S.



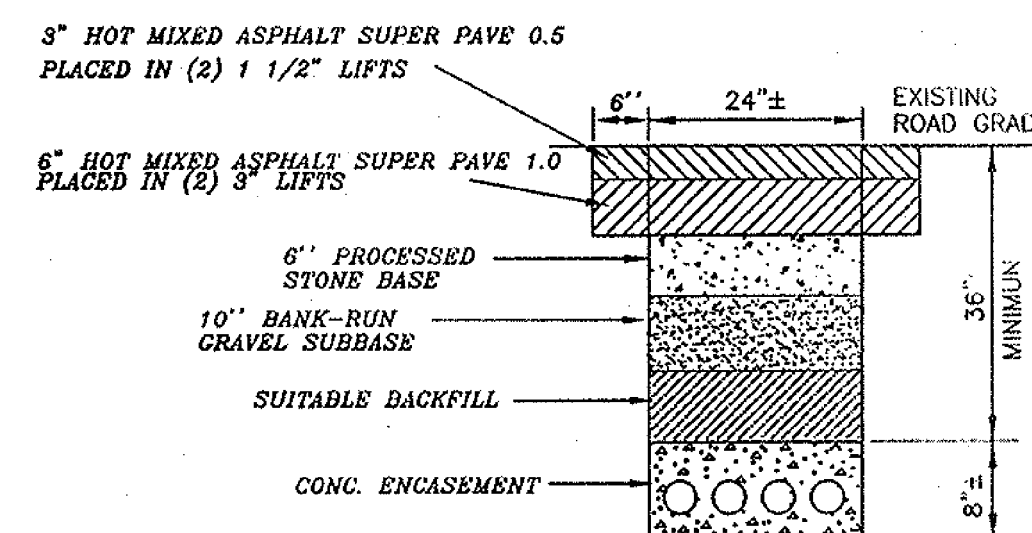
SB - TYPE FRAME  
N.T.S.



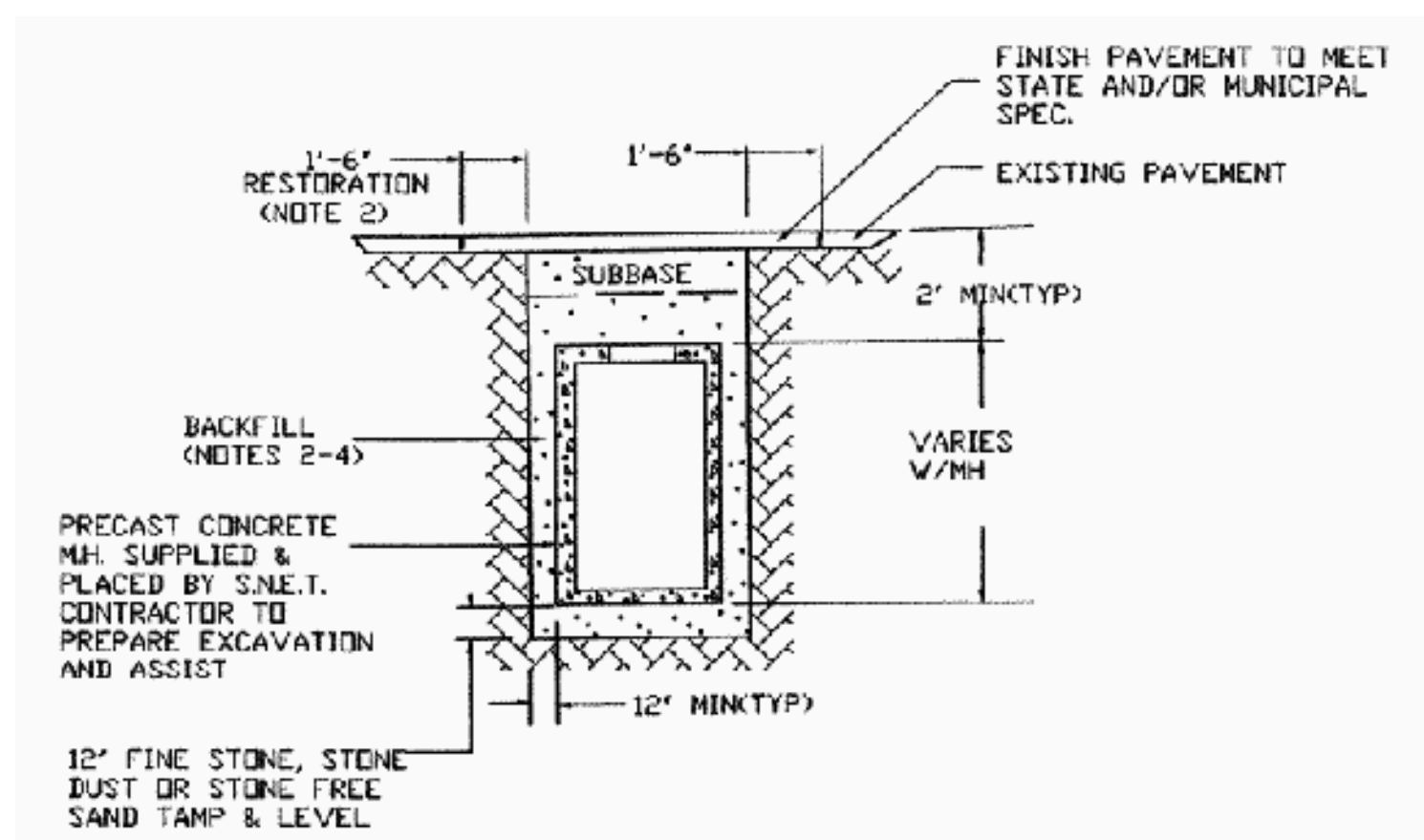
PRECAST CONCRETE RISER SEGMENTS  
N.T.S.



TYPICAL GRASS TRENCH DETAIL  
N.T.S.



TYPICAL ROADWAY TRENCH DETAIL  
N.T.S.



MANHOLE INSTALLATION  
N.T.S.

AT&T DUCTBANK NOTES:

1. ALL MEASUREMENTS ARE APPROXIMATE, CONDUIT INSPECTOR TO VERIFY AND RECORD MEASUREMENTS REQUIRED FOR RECORDS.
2. THE LOCATIONS OF UNDERGROUND STRUCTURES SHOWN HEREIN ARE ACCORDING TO THE BEST AVAILABLE INFORMATION. THEY ARE NOT GUARANTEED TO BE CORRECT OR COMPLETE.
3. DO NOT DEVIATE FROM THESE PLANS WITHOUT FIRST CONTACTING THE AREA CONDUIT ENGINEERING GROUP: KENNETH L. SHERMAN @ (203)-238-0020
4. CONTRACTOR TO ARRANGE TO HAVE ALL UTILITIES VERIFY THEIR POSITIONS IN THE FIELD BEFORE STARTING EXCAVATIONS. UTILITY SERVICES TO PROPERTIES ARE NOT SHOWN ON THESE PLANS.
5. CONNECTICUT BUREAU OF HIGHWAYS PERMIT APPLIED FOR BY AREA CONDUIT ENGINEERING GROUP ON / / . CONDUIT INSPECTOR TO NOTIFY BUREAU OF HIGHWAYS 48 HOURS PRIOR TO START OF CONSTRUCTION. REFER TO PERMIT #
6. CONTRACTOR TO OBTAIN MUNICIPAL EXCAVATION PERMITS WHERE APPLICABLE.
7. PROTECT ALL TOWN, STATE, AND FEDERAL MONUMENTS AND BENCH MARKS. CONDUIT INSPECTOR TO CONTACT RESPECTIVE ENGINEERING DEPARTMENTS FOR TYPES AND LOCATIONS BEFORE STARTING WORK.
8. PROTECT ALL PLANTS AND TREES AND THEIR ROOT SYSTEMS FROM MECHANICAL AND ENVIRONMENTAL DAMAGE DURING EXCAVATION. BACK FILL ROOT AREAS WITH SOIL HAVING TEXTURE AND FERTILITY TO SUSTAIN PLANT LIKE. CONTRACTOR TO REMOVE ALL ROOTS OF DEAD STUMPS FROM TRENCH PRIOR TO PLACING CONDUIT.
9. THE FOLLOWING MINIMUM CLEARANCES SHALL BE MAINTAINED UNLESS OTHERWISE NOTED:

<u>UTILITY</u>	<u>CROSSING</u>	<u>PARALLEL</u>
GAS MAIN	12"	30"
GAS SERVICE	12"	12"
WATER MAIN	12"	18"
WATER SERVICE	12"	12"
ELECTRIC FACILITIES	12"	12"
STM & SAN. SEWERS	12"	12"

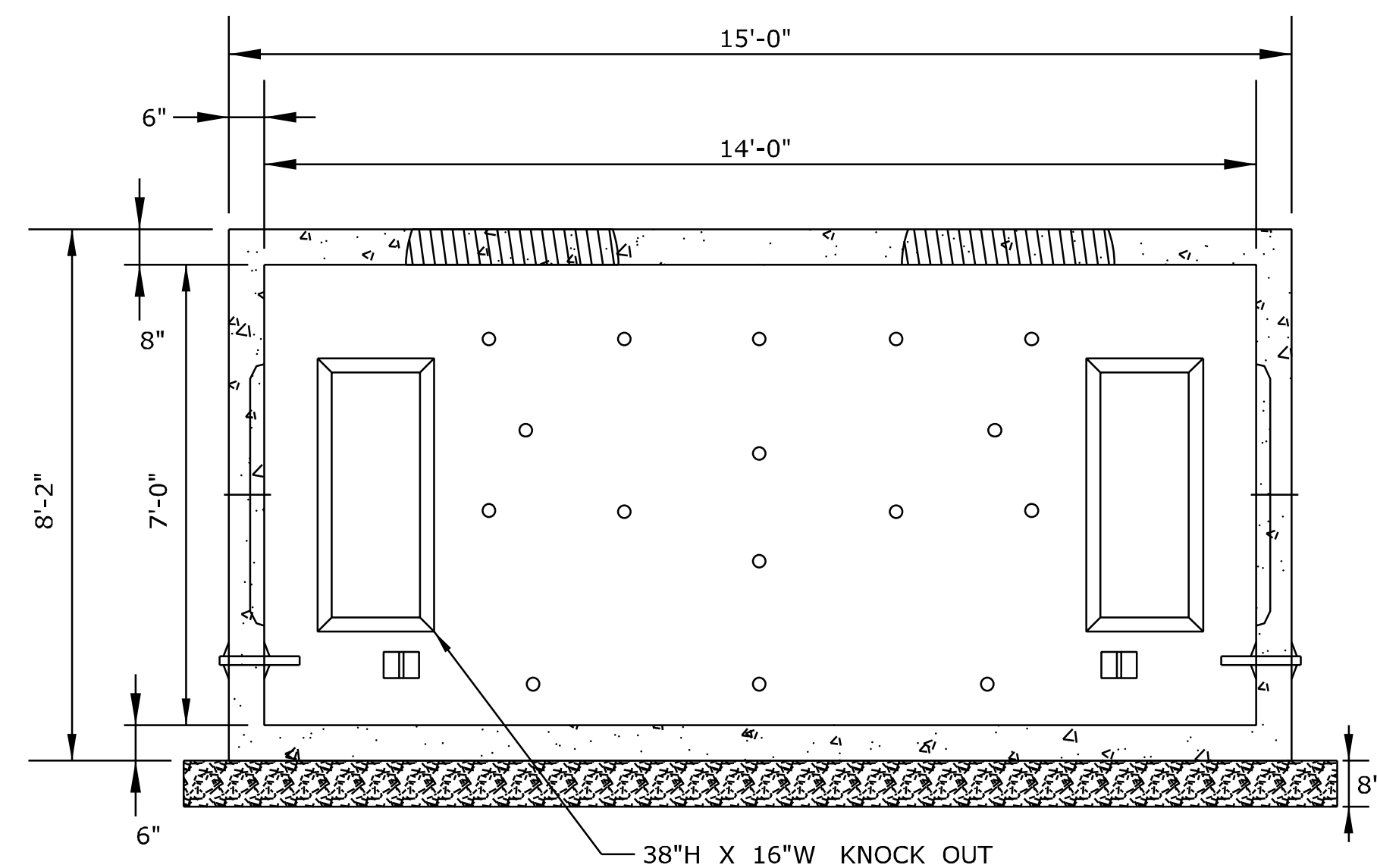
10. CONDUIT TO BE PLACED AT A MINIMUM OF 36" BELOW ELEVATION OF THE NEAREST PORTION OF THE ROAD PAVEMENT UNLESS OTHERWISE NOTED. MANHOLES TO HAVE A MINIMUM OF 24" COVER FROM NEAREST ROAD PAVEMENT UNLESS OTHERWISE NOTED.
11. CONDUIT INSPECTOR/CONSTRUCTION FOREMAN TO COMPLETE FORM 56 FOR ALL 4C AND/OR 4X WORK. REF TO BSP 004-517-010SN.
12. AT BENDS HAVING RADII OF 80 FEET OR LESS, OR AT GRADE CHANGES OF 20 PERCENT (11.3 DEGREES) OR MORE, PERMANENT SPACERS ARE REQUIRED TO PROVIDE A MINIMUM, HORIZONTAL AND VERTICAL SEPARATION OF 1 INCH BETWEEN ADJACENT DUCTS AND 1 INCHES MINIMUM CLEARANCE BETWEEN THE FIRST TIER OF DUCTS AND THE TRENCH BOTTOM.
13. ALL WORK IS TO CONFORM WITH APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL SAFETY CODE, PUC DOCKET 8950 PUC DOCKET 9000, PUC DOCKET L0300, C.O.H.A. AND ANY AND ALL OTHER FEDERAL, STATE OR MUNICIPAL CODES OR LAWS THAT MAY APPLY. IN ADDITION, ALL WORK WITHIN THE LIMITS OF FEDERAL AND STATE HIGHWAY SHALL CONFORM TO CONNECTICUT BUREAU OF HIGHWAYS PERMITTEE MANUAL AND ALL PROVISIONS OF THE PERMIT(S) ISSUED BY THE CONNECTICUT BUREAU OF HIGHWAYS.
14. ALL CONDUIT AND MANHOLES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS (BELL SYSTEM PRACTICES) UNLESS OTHERWISE NOTED:

TESTING & VENTILATION OF MANHOLES	620-140-501SN
CONCRETE AND MANHOLE CONSTRUCTION	622-020-020
CONDUIT & MANHOLE-PRECAUTIONS	622-100-010
MAIN CONDUIT-STEEL PIPE	622-315-200
MAIN CONDUIT-TYPE 1 FIBER CONDUIT	622-325-200
MAIN CONDUIT-TYPE 11 FIBER CONDUIT	622-325-201
MAIN CONDUIT-B PLASTIC	622-340-200
MAIN CONDUIT-C PLASTIC	622-340-201
MANHOLE-IDENTIFICATION	622-500-020
MANHOLE-EQUIPPING	622-520-100
B FISHING KIT	649-325-101
SEALING DUCTS-CONDITIONS REQUIRING SEALS	628-220-200
16 FEET C.E.V. DESCRIPTION	622-506-050
16 FEET C.E.V.-INSTALLATION	622-506-225
16 FEET C.E.V.-OPERATION & MAINTENANCE	622-506-226

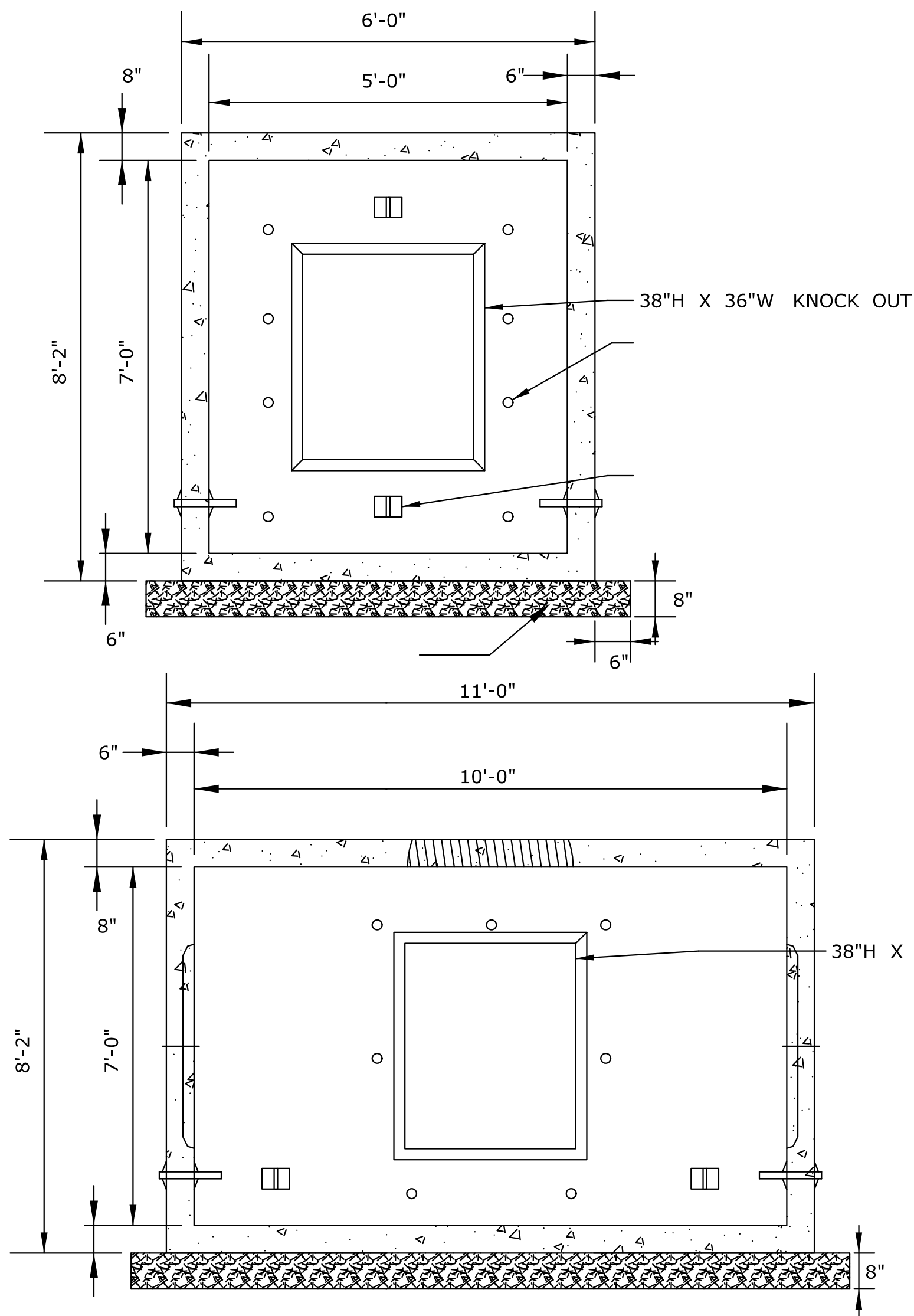
15. IN AREAS WHERE EXCAVATION IS IN ROCK LEDGE PROVIDE 6 INCH MINIMUM SELECT FILL CUSHION AROUND CONDUIT AND 12 INCH CUSHION AROUND MANHOLES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL BLASTING PERMITS.
16. "UNUSEABLE" CONDUIT SCRAP SUCH AS CUT OFF ENDS, BROKEN OR SPLIT STOCK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN AN ENVIRONMENTALLY SAFE MANNER.
17. AT&T CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING WORK ONLY. REBUILDING OF MANHOLES 31 & 32 AND CONNECTION ALL ASSOCIATED PIPING FROM 25' FROM MANHOLES (EXISTING STRUCTURES AND NEW.)
18. ALL DISTURBED AREAS OUTSIDE THE AT&T WORK AREA WILL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER.
19. CONTRACTOR MUST CONTACT "CALL BEFORE YOU DIG" (800)-922-4455 A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION.
20. ALL STATE AND AT&T CONTRACTS WILL BE PROVIDED AFTER PROJECT HAS BEEN AWARDED.

[illegible]



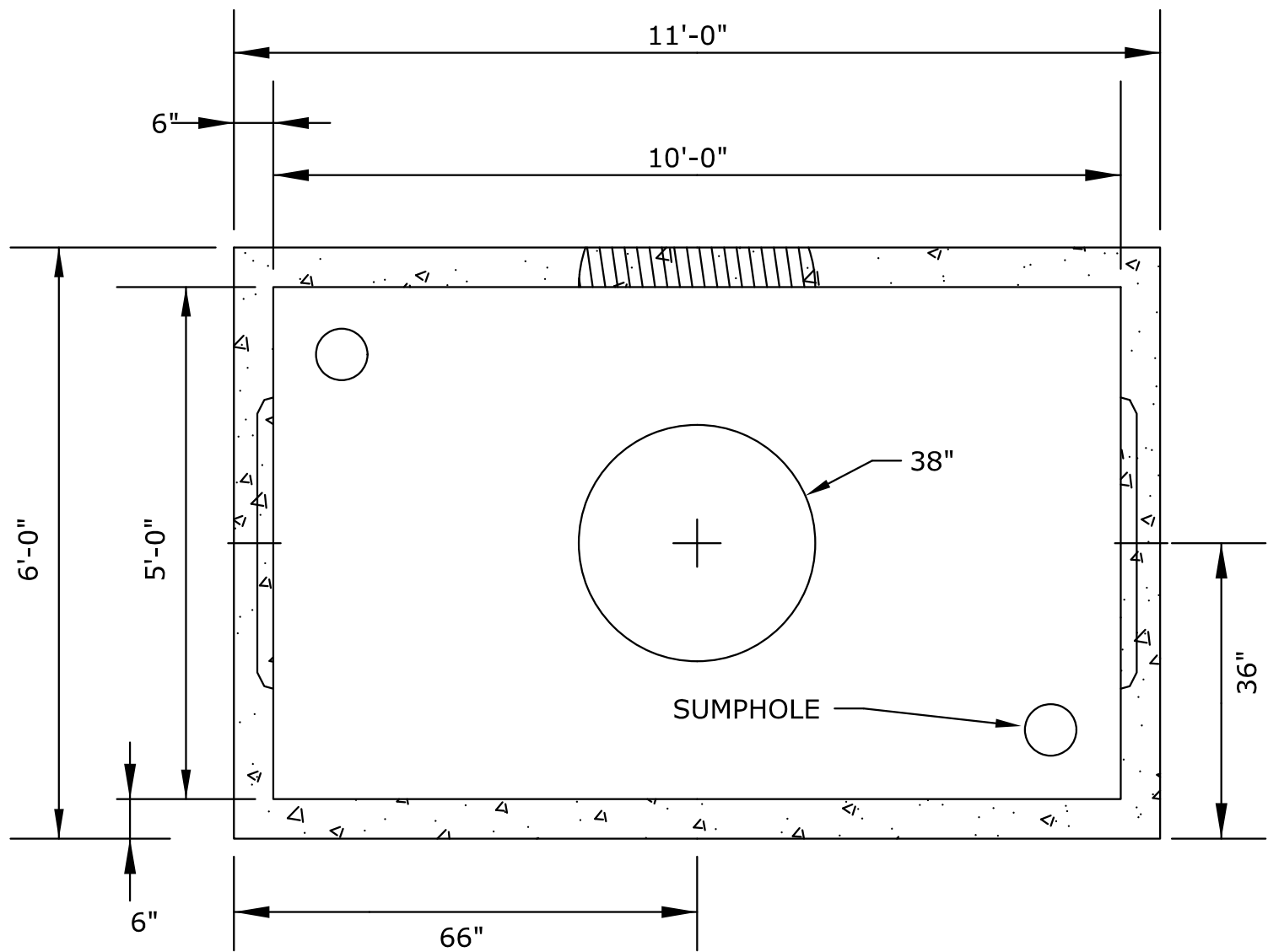




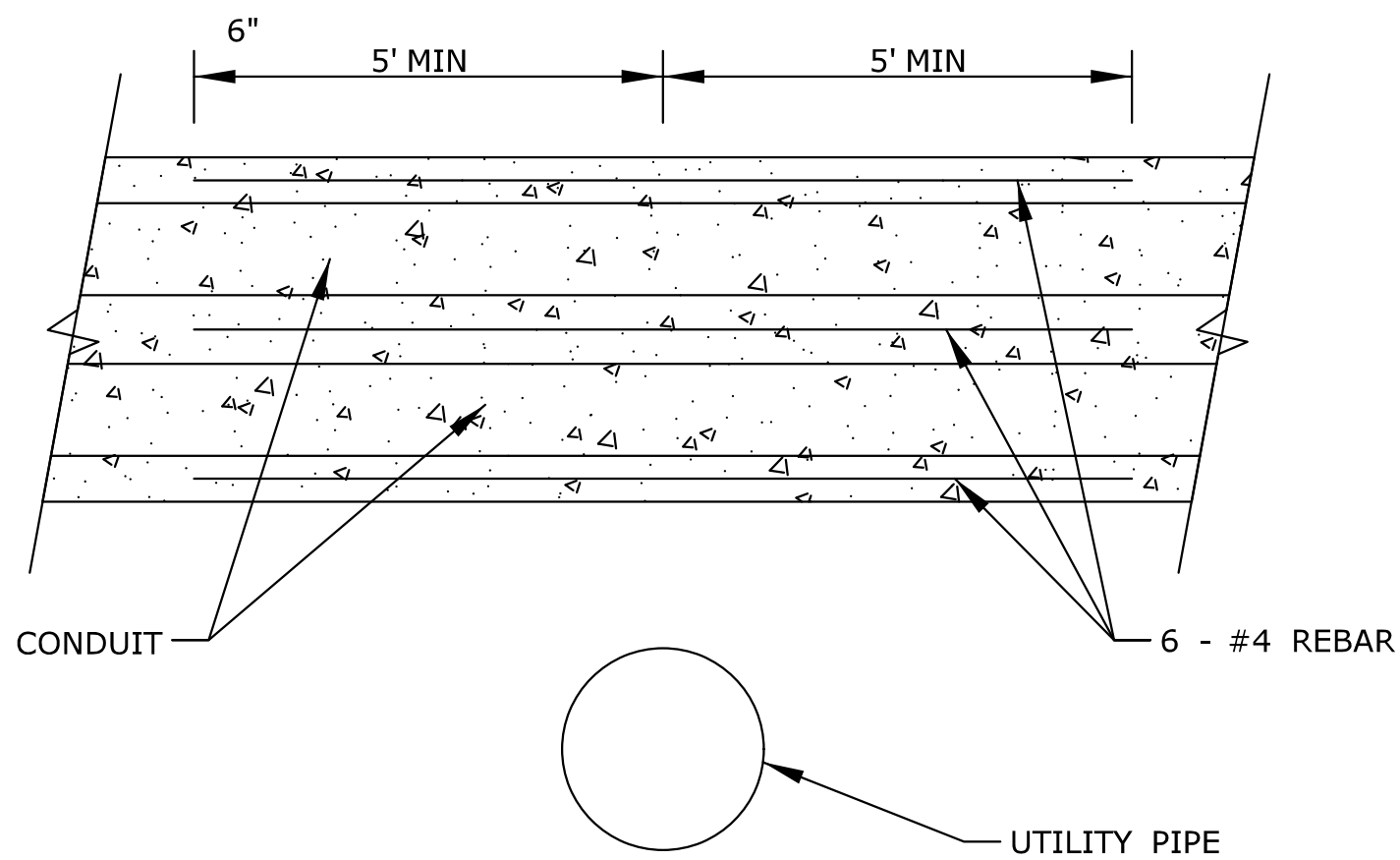


NOTES:

1. CONCRETE - 28 DAY MINIMUM 500 PSI STRENGTH PER ACI 318.
2. MANHOLE DESIGNED FOR AASHTO HS20 LIVE LOADING.
3. REINFORCING BARS PER ASTM A615, GRADE 40/60. WIRE MESH PER ASTM A185/A497.
4. MANUFACTURER'S NAME CLEARLY MARKED AND VISIBLE.
5. WEIGHT - 9 TONS PER SECTIONS.
6. APPROVED SUPPLIERS - ARROW, UNITED.
7. SUMP GRATES SHALL BE SUPPLIED WITH ALL UI SPICE CHAMBERS: SIZED AT 12 " DIAMETER FOR A #10 PIPE SIZE, OR EQUAL.
8. THERE IS A GROUND TESTING REQUIREMENT OF 5 OHMS. THE RESULTS OF THIS TEST AT EACH MANHOLE ARE TO BE PROVIDED TO UI.

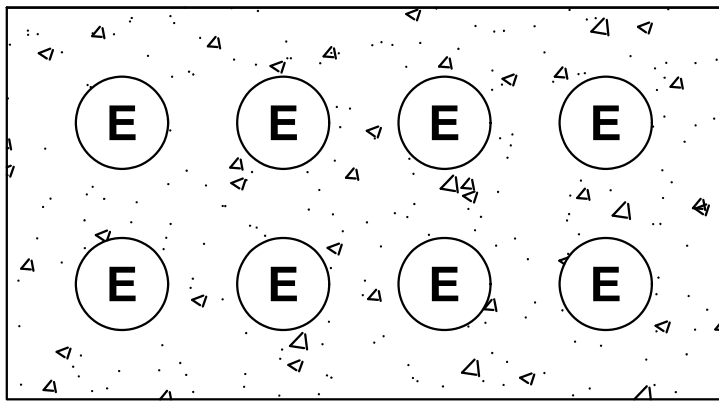


UI PRECAST CONCRETE ELECTRIC MANHOLE 5'x10'  
N.T.S.

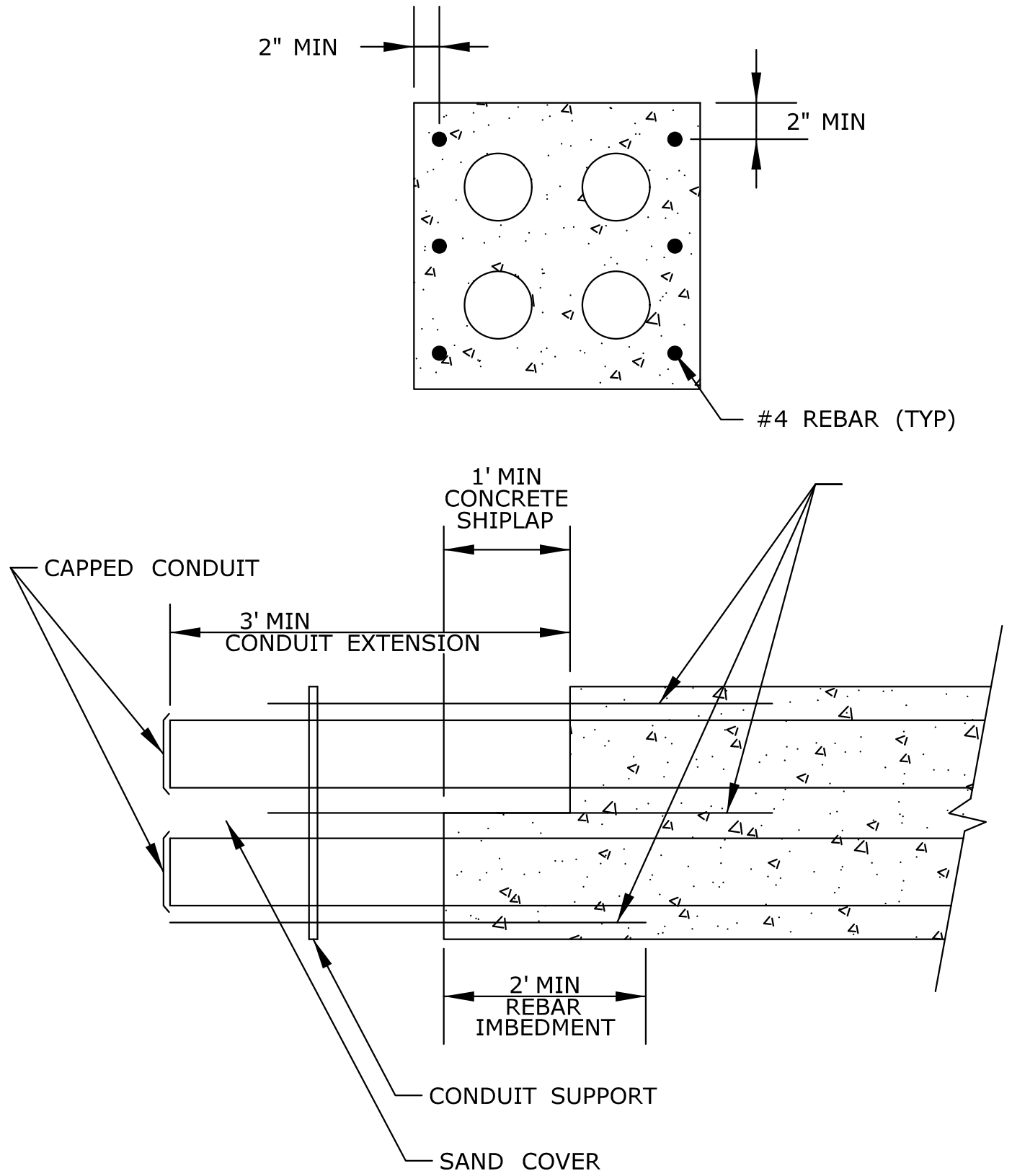


NOTE:  
UTILIZE UI DUCTBANK UTILITY CROSSING DETAIL WHENEVER  
CROSSING OVER A WATER MAIN OR A UTILITY PIPE GREATER  
THAN 6" DIAMETER.

UI DUCTBANK UTILITY CROSSING  
N.T.S.

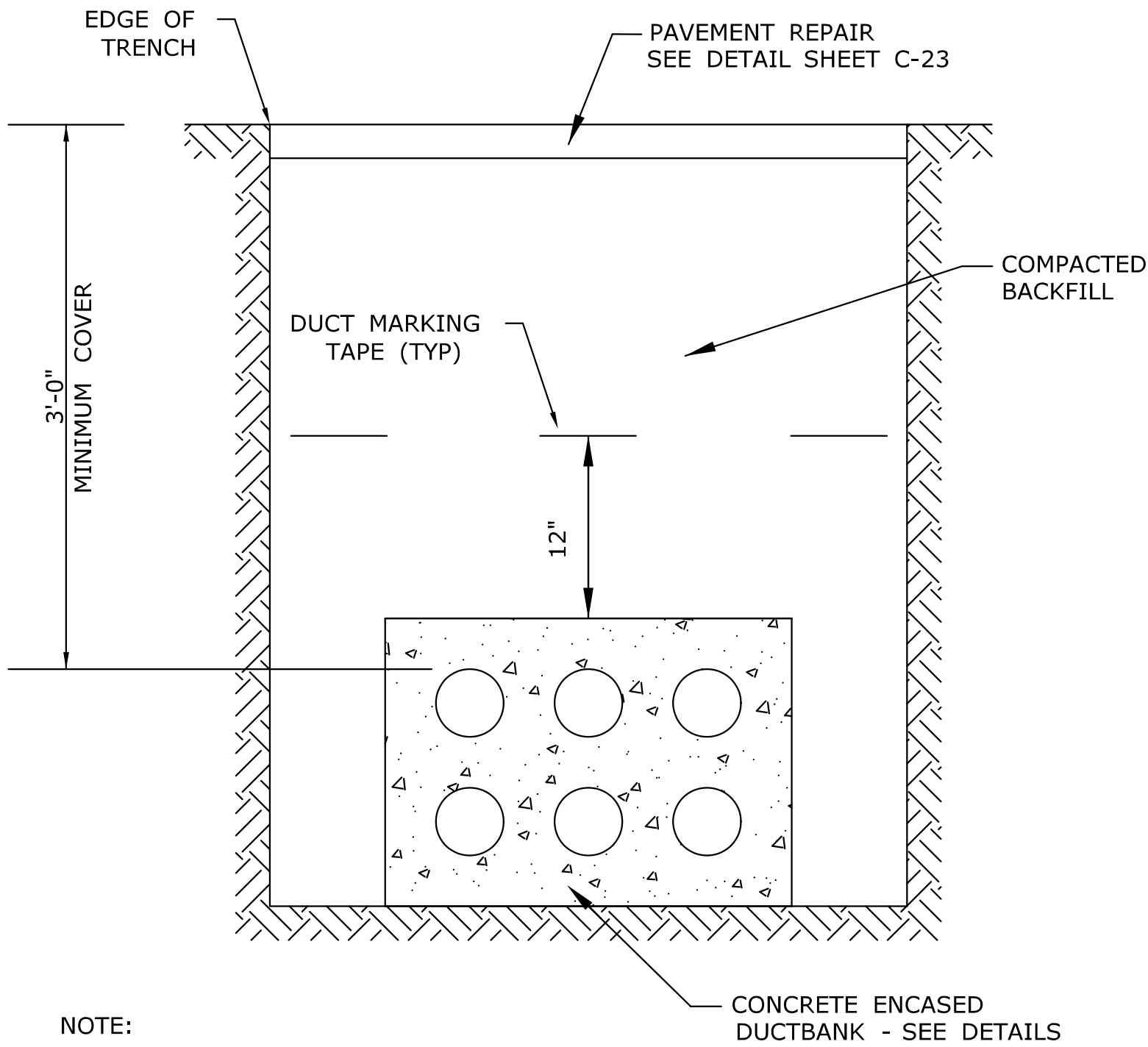


4x2 PRIMARY ELECTRICAL DUCTBANK  
N.T.S.



NOTE:  
UTILIZE UI DUCTBANK CONCRETE TERMINATION  
WHENEVER A COLD JOINT IN THE CONCRETE ENCASMENT  
IS ANTICIPATED.

UI DUCTBANK CONCRETE TERMINATION  
N.T.S.



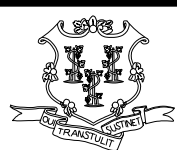
NOTE:  
COMPACT BACKFILL TO AT LEAST 95%  
OF MAXIMUM DENSITY PER ASTM D-1557

TYPICAL UI DUCTBANK TRENCH SECTION  
N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted: 6/24/2013

DESIGNER/DRAFTER:  
S. HARLEY  
CHECKED BY:  
S. MITCHELL  
SCALE AS NOTED



STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION



Filename: ...\\HW\_MSH\_015-336-UTL-07.dgn

SIGNATURE/  
BLOCK:

PROJECT TITLE:  
RUNWAY SAFETY AREA PROJECT  
IGOR I. SIKORSKY MEMORIAL AIRPORT

TOWN:  
STRATFORD  
DRAWING TITLE:  
UTILITY DETAILS  
UI ELECTRICAL DETAILS

PROJECT NO.  
15-336  
DRAWING NO.  
UTL-5.07  
SHEET NO.



FCA304818T-00006

FIBERGLASS / POLYMER CONCRETE ASSEMBLY

30" x 48" x 18"  
(For actual dimensions see drawing)

Fiberglass / Polymer Concrete Assembly, Tapered Sides, No Floor, WUC 3.6-20K, 3/8" Hex Bolts, Standard Nameplate (Specify at time of order) Installed

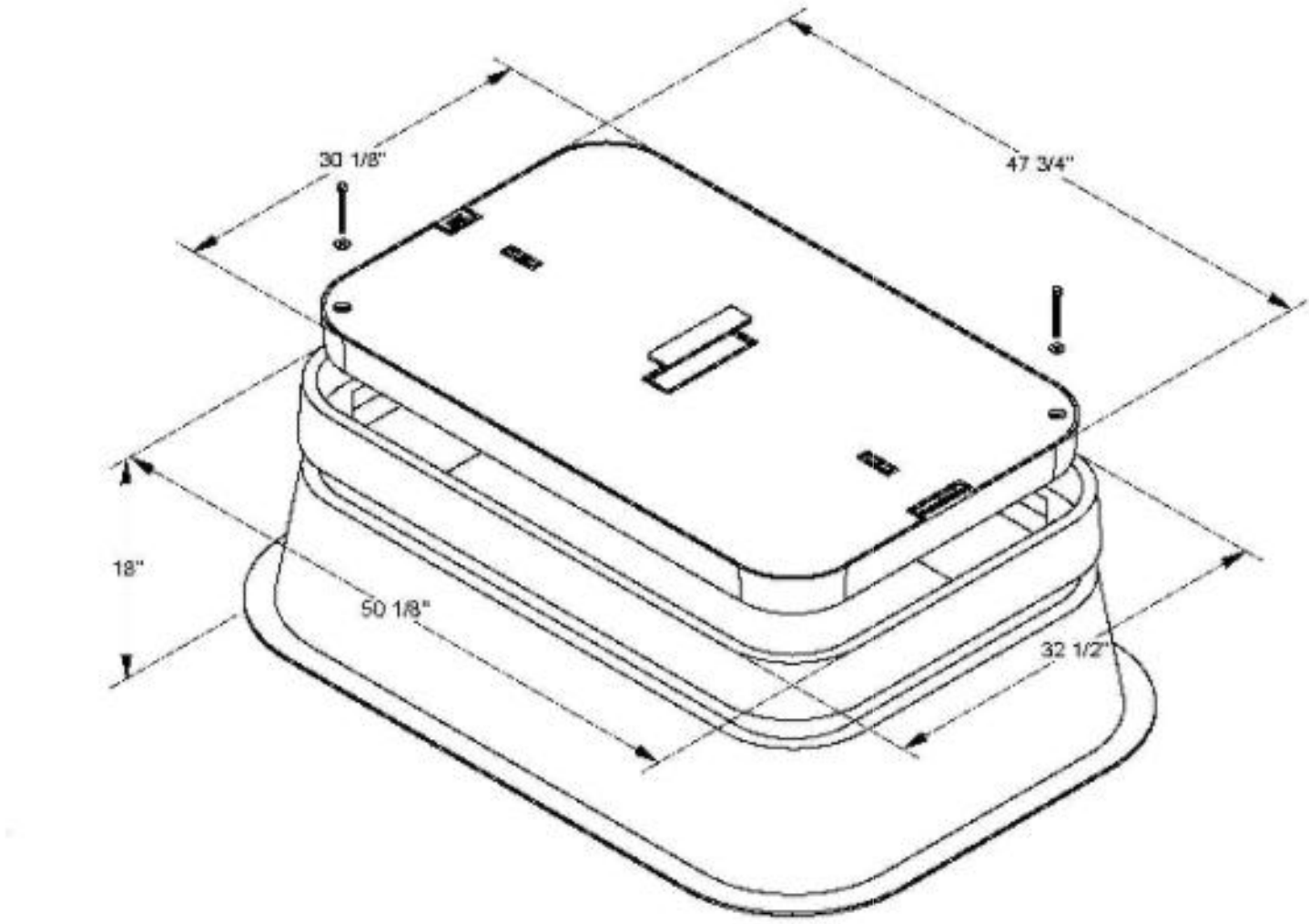
**LOAD RATINGS**  
Incidental Traffic - Parking Lot, Sidewalk  
Conforms to:  
• WUC 3.6  
• ASTM C 857  
• ANSI/SCTE 77

**FEATURES:**  
• USDA/RUS Approved  
• Drop-In nameplate  
• Shipped assembled  
• Skid resistant cover  
• Stainless steel bolts  
• Cast-in floating nut box  
• Integral drain holes

Additional product information continued on the reverse

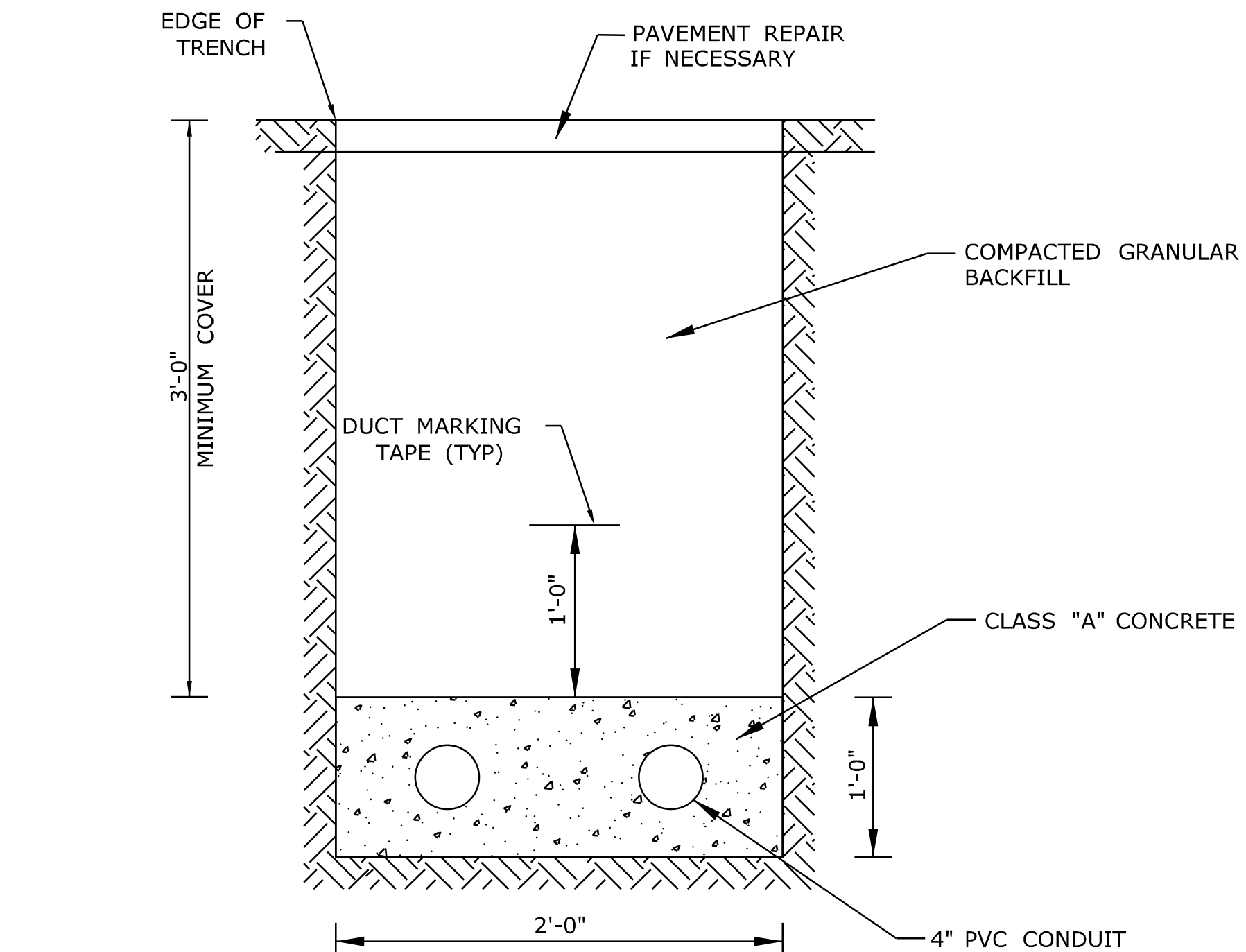
**newbasis**  
Composites for Infrastructure

2626 Kansas Avenue  
Riverside, California 92507  
951.787.0600  
951.787.0632 (fax)  
info@newbasis.com  
newbasis.com



Inside Dimensions		
Length	Width	Depth
45 1/2"	27 7/8"	15"
54 1/8"	37"	

REV: A



NOTE:  
COMPACT BACKFILL TO AT LEAST 95%  
OF MAXIMUM DENSITY PER ASTM D-1557

TYPICAL CABLEVISION DUCTBANK TRENCH SECTION  
N.T.S.

FCA304818T-00006

FIBERGLASS / POLYMER CONCRETE ASSEMBLY

Fiberglass / Polymer Concrete Assembly, Tapered Sides, No Floor, WUC 3.6-20K, 3/8" Hex Bolts, 1 Piece Cover, Standard Nameplate (Specify at time of order) Installed

AVAILABLE OPTIONS

- ☒ Tapered Sides
- ☐ Penta Bolt
- ☐ Telephone EMS
- ☐ Power EMS
- ☐ Racks (2)
- ☐ Knockouts
- ☐ Floor
- ☐ 2 Piece Cover
- ☐ Custom Nameplate Installed
- ☐ Custom Nameplate Shipped Separately
- ☒ Standard Nameplate Installed
- ☐ Standard Nameplate Shipped Separately

☒ - Indicates a selected option

MATERIAL PROPERTIES AND ATTRIBUTES

**Compressive Strength**  
Polymer Concrete - 87 MPa  
FRP - 134 MPa  
Per ASTM D695/D3410

**Flexural Strength**  
Polymer Concrete - 29 MPa  
FRP - 116 MPa  
Per ASTM D790

**Coefficient of Friction (Dry)**  
1.085  
Per ASTM C1028

Polymer Concrete  
- Advanced composite: Very high strength to weight ratio  
- Non-metallic  
- Non-conductive  
- UV Resistant  
- High impact resistant  
- Impervious to chemicals and moisture

Materials tested in accordance with ASTM D-543 and ASTM D-570

NAMEPLATES

One standard nameplate included with each assembly. Installed at the factory or easily installed in the field. Custom nameplates are available. Contact customer service.

Standard Nameplates

- Electric
- Telephone
- Fiber Optic
- Water
- Irrigation Control Valve
- Broadband
- Traffic
- CATV
- Traffic Signal
- Communications

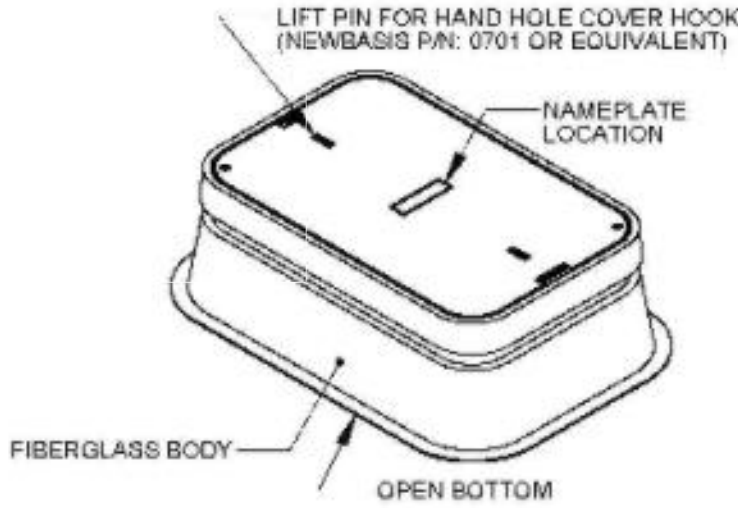
WEIGHTS AND SHIPPING

COVER WEIGHT: 203 lbs.  
BOX WEIGHT: 218 lbs.  
ASSEMBLY WEIGHT: 421 lbs.  
LOADED PALLET WEIGHT: 2290 lbs.

Standard shipping includes van delivery of pallet quantities to the lower 48 states. Partial pallet quantities and flat bed shipping available at an additional cost.

newbasis

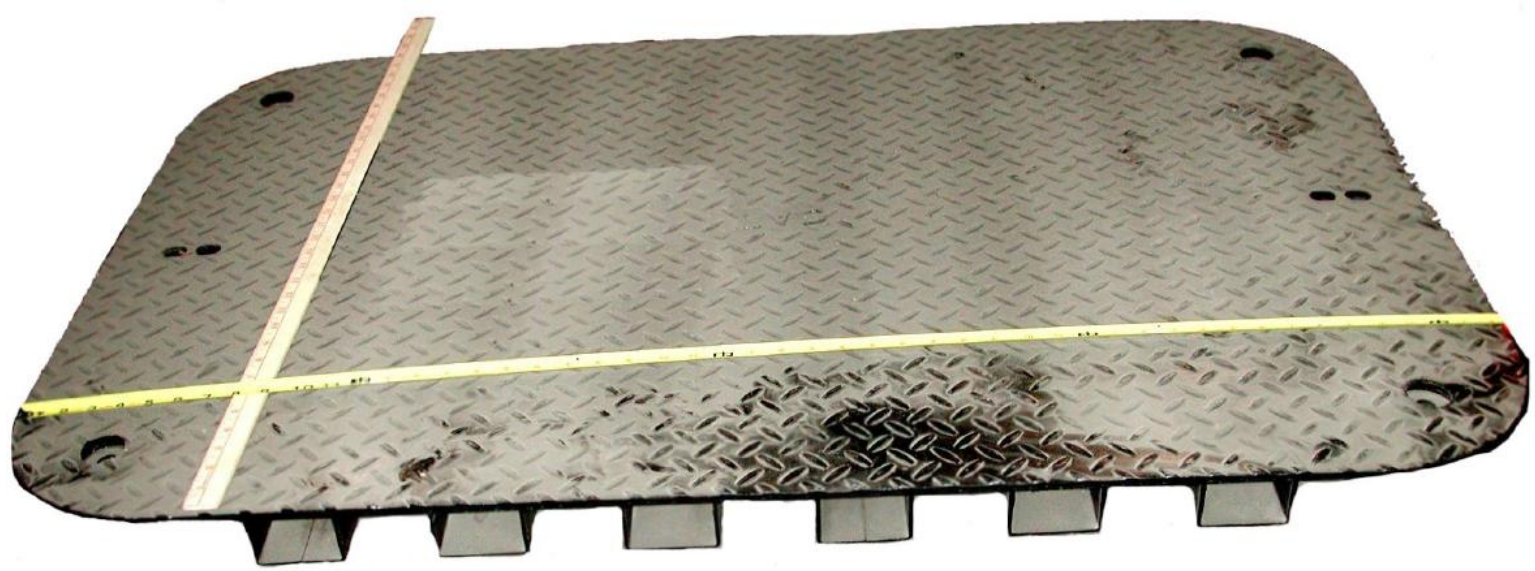
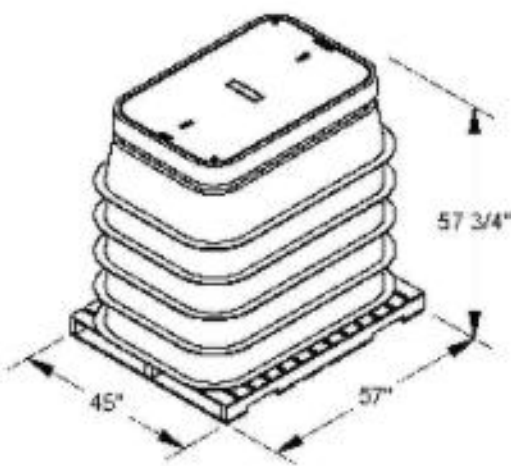
30" x 48" x 18" For actual dimensions, see drawing on front side.



Rev. A

PACKAGING (Steel Banding, Edge Protection)

PALLET QUANTITY: 5



ITEM # 15265  
VAULT COVER STEEL FOR 30" X 48"  
4 BOLT MARKED CATV, 2 OK LOADING  
(STC304801B04)  
U/M EA

NOTE:  
ALL PVC CONDUIT, VAULT STRUCTURES, AND STEEL VAULT COVER LIDS WILL BE SUPPLIED ON SITE BY CABLEVISION.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted: 6/24/2013

DESIGNER/DRAFTER:  
S. HARLEY  
CHECKED BY:  
S. MITCHELL  
SCALE AS NOTED

**STATE OF CONNECTICUT**  
DEPARTMENT OF TRANSPORTATION

Filename: ...\\HW\_MSH\_015-336\_UTL-08.dgn

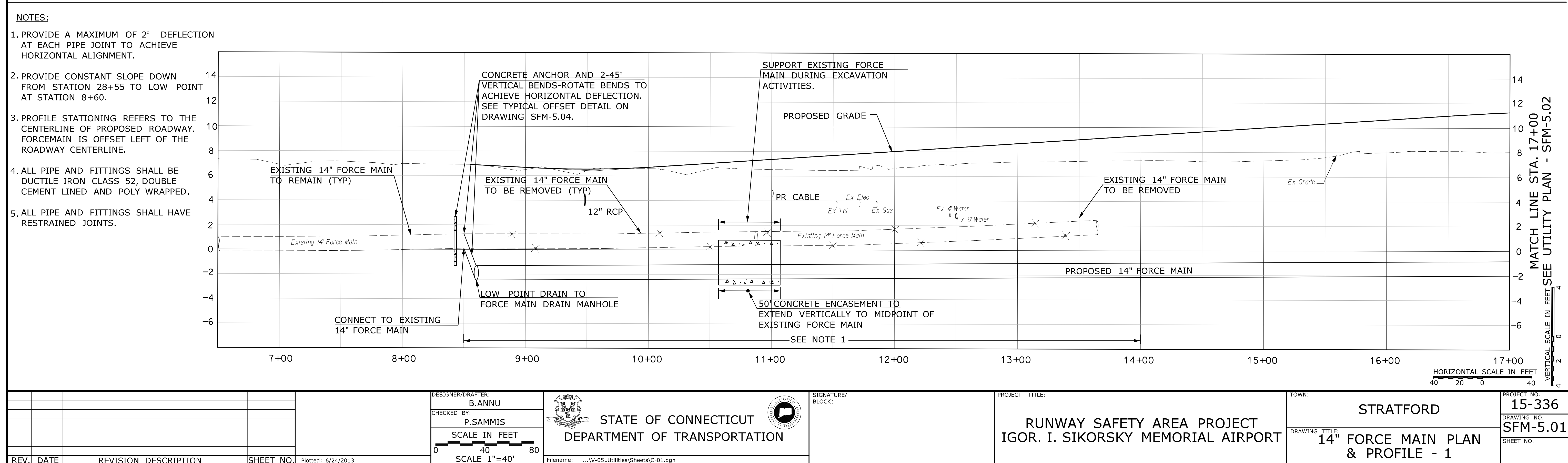
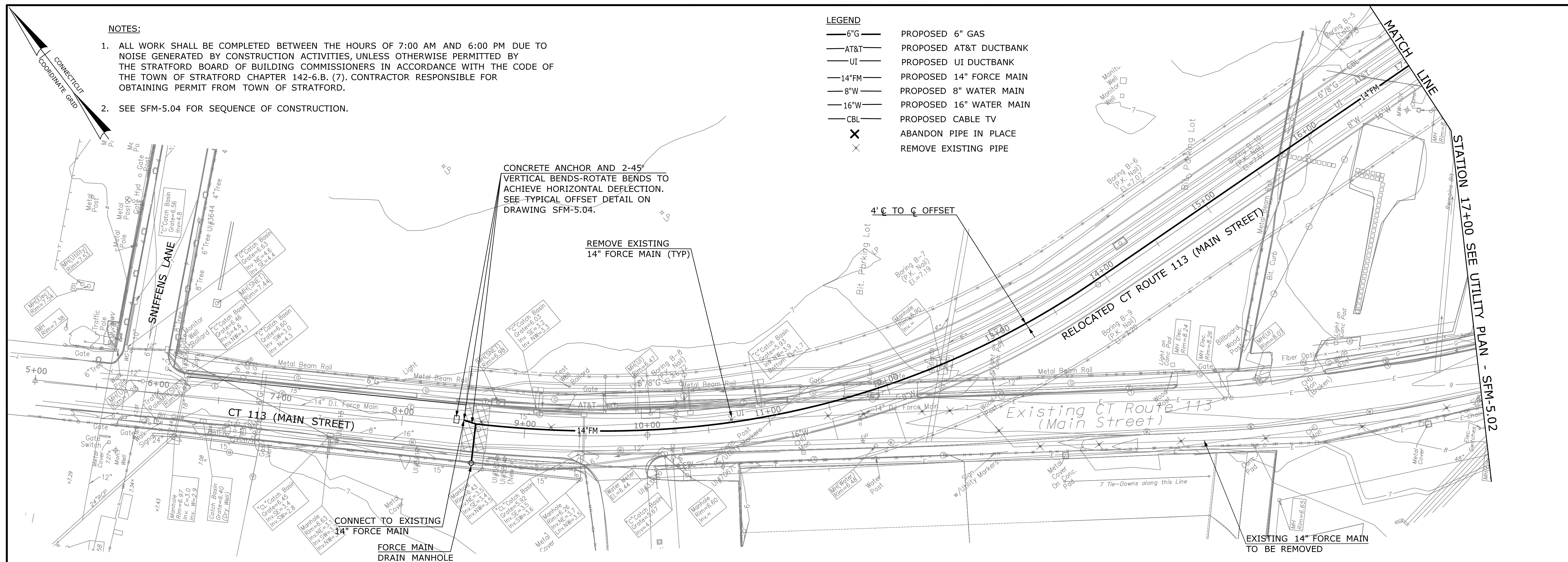
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BLOCK:

PROJECT TITLE:  
RUNWAY SAFETY AREA PROJECT  
IGOR I. SIKORSKY MEMORIAL AIRPORT

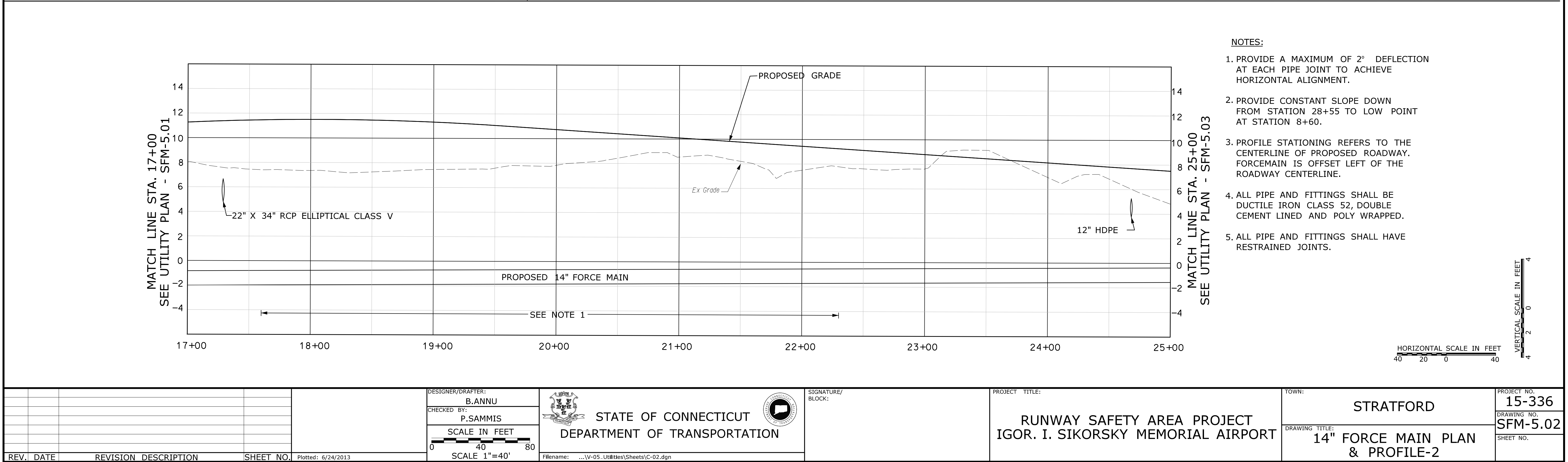
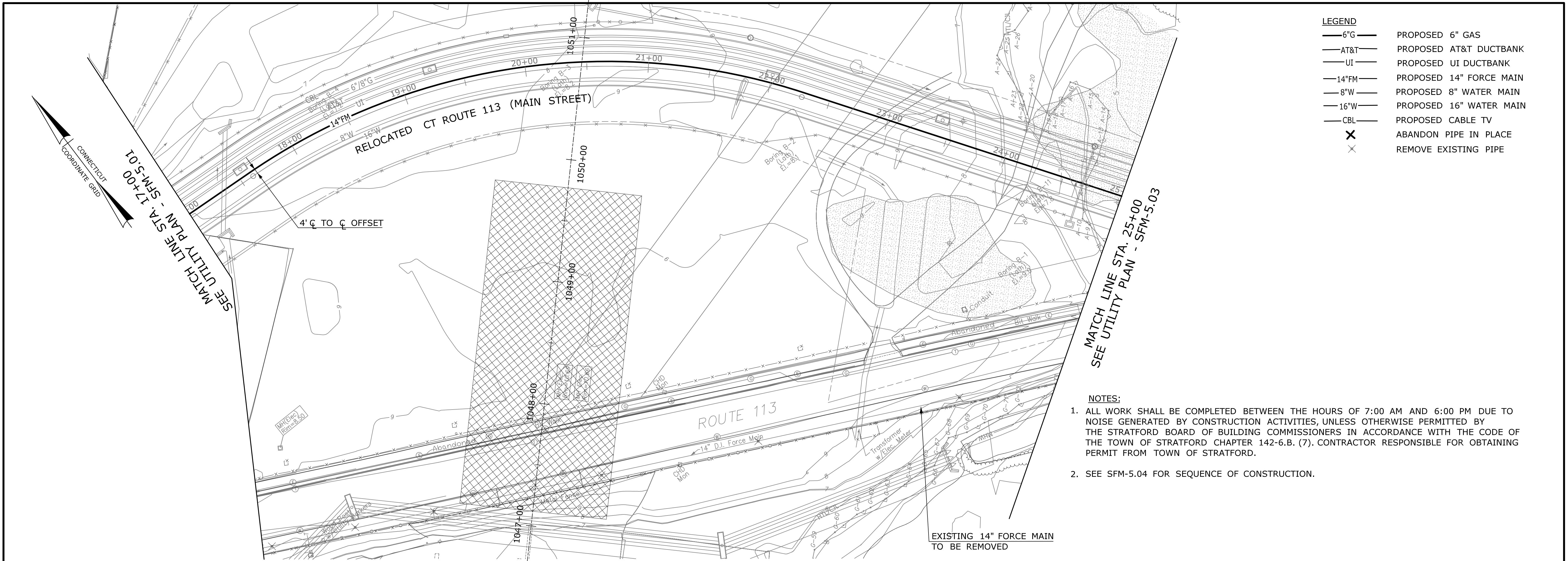
TOWN:  
STRATFORD  
DRAWING TITLE:  
UTILITY DETAILS  
CABLEVISION DETAILS

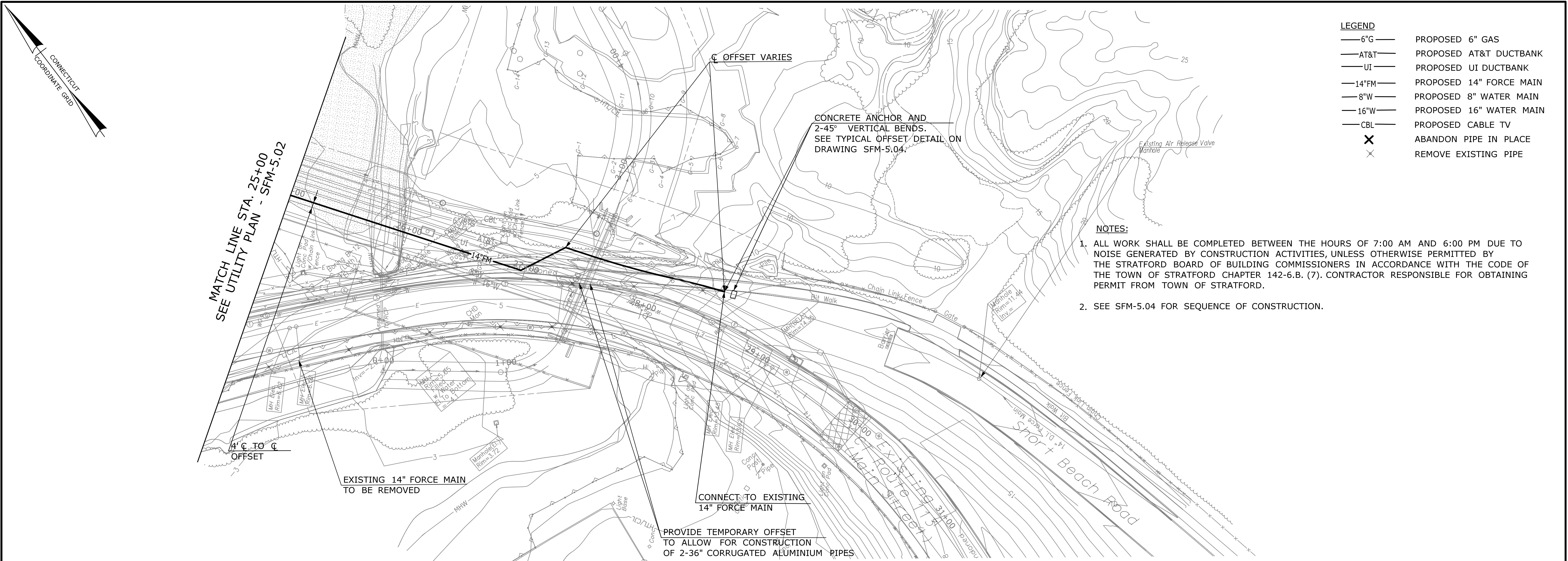
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15-336  
DRAWING NO.  
UTL-5.08  
SHEET NO.





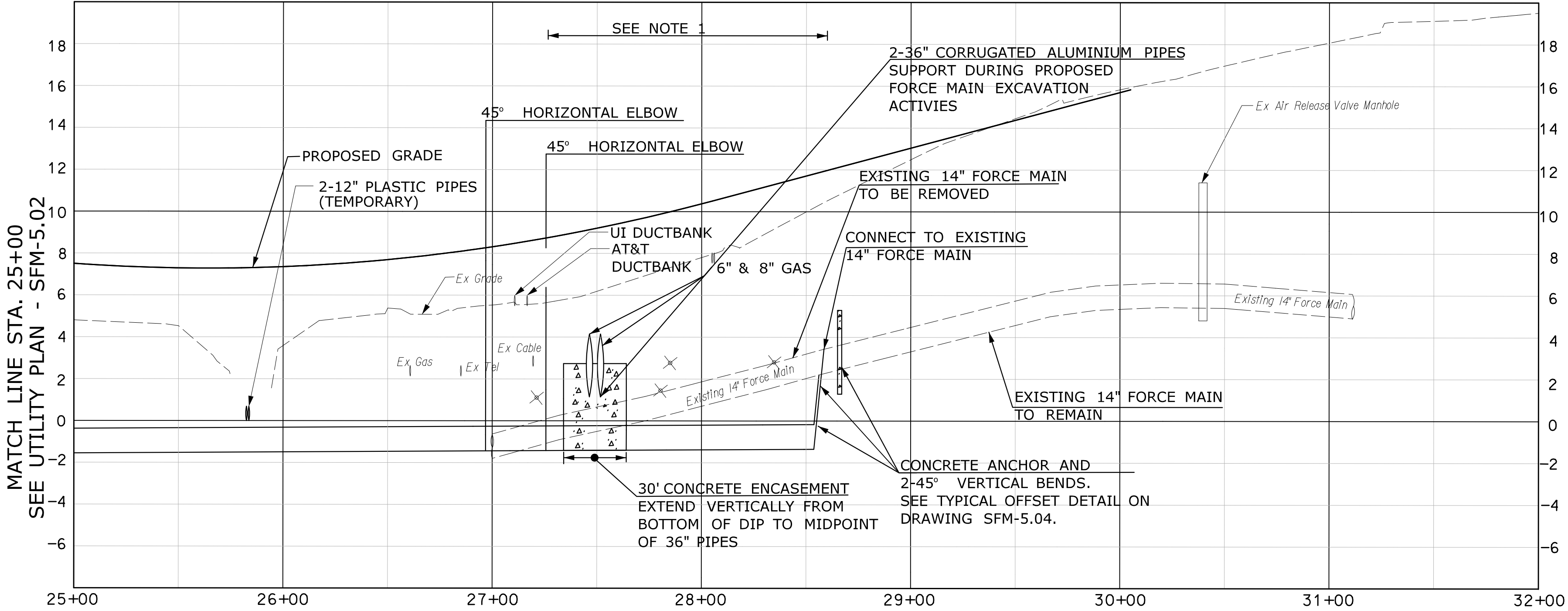




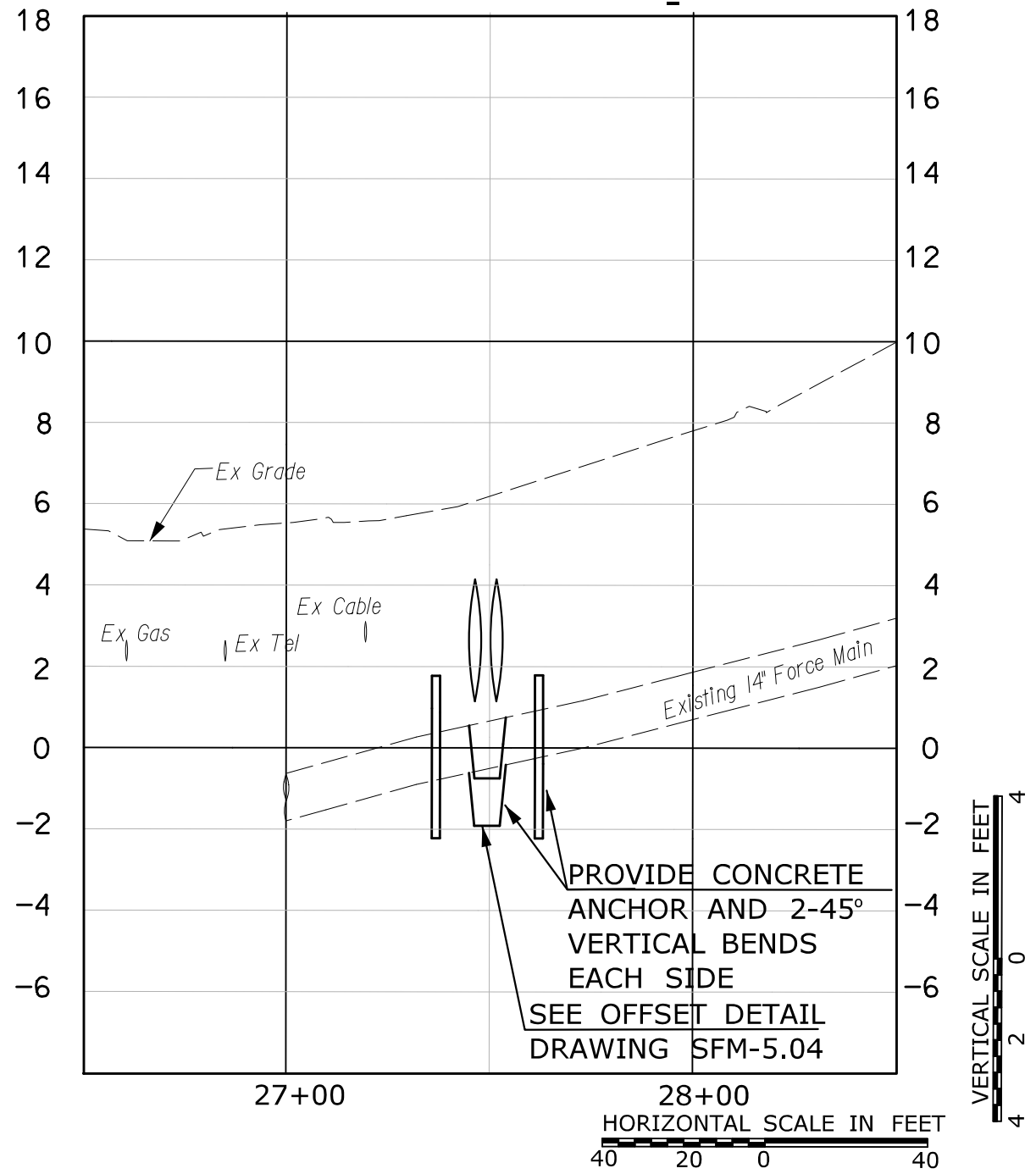


NOTES:

- PROVIDE A MAXIMUM OF 2" DEFLECTION AT EACH PIPE JOINT TO ACHIEVE HORIZONTAL ALIGNMENT.
- PROVIDE CONSTANT SLOPE DOWN FROM STATION 28+55 TO LOW POINT AT STATION 8+60.
- PROFILE STATIONING REFERS TO THE CENTERLINE OF PROPOSED ROADWAY. FORCEMAIN IS OFFSET LEFT OF THE ROADWAY CENTERLINE.
- ALL PIPE AND FITTINGS SHALL BE DUCTILE IRON CLASS 52, DOUBLE CEMENT LINED AND POLY WRAPPED.
- ALL PIPE AND FITTINGS SHALL HAVE RESTRAINED JOINTS.



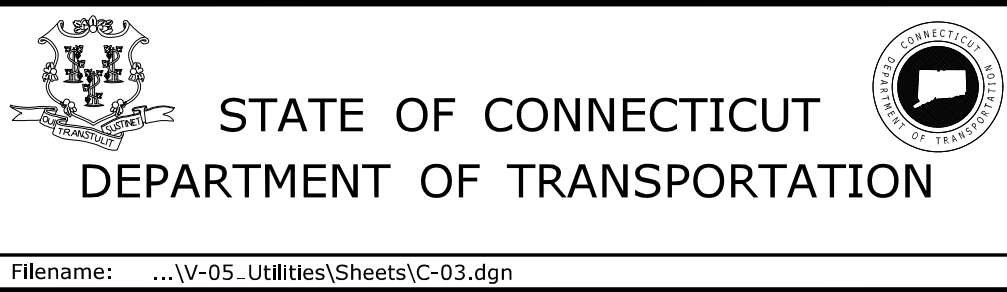
TEMPORARY FORCE MAIN OFFSET  
STATION 27+50 -10'±L



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted: 6/24/2013

DESIGNER/DRAFTER: B.ANNU
CHECKED BY: P.SAMMIS
SCALE IN FEET 0 40 80 SCALE 1"=40'



SIGNATURE/  
BLOCK:

PROJECT TITLE:

RUNWAY SAFETY AREA PROJECT  
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN:

STRATFORD

DRAWING TITLE:

14" FORCE MAIN PLAN  
& PROFILE-3

PROJECT NO.

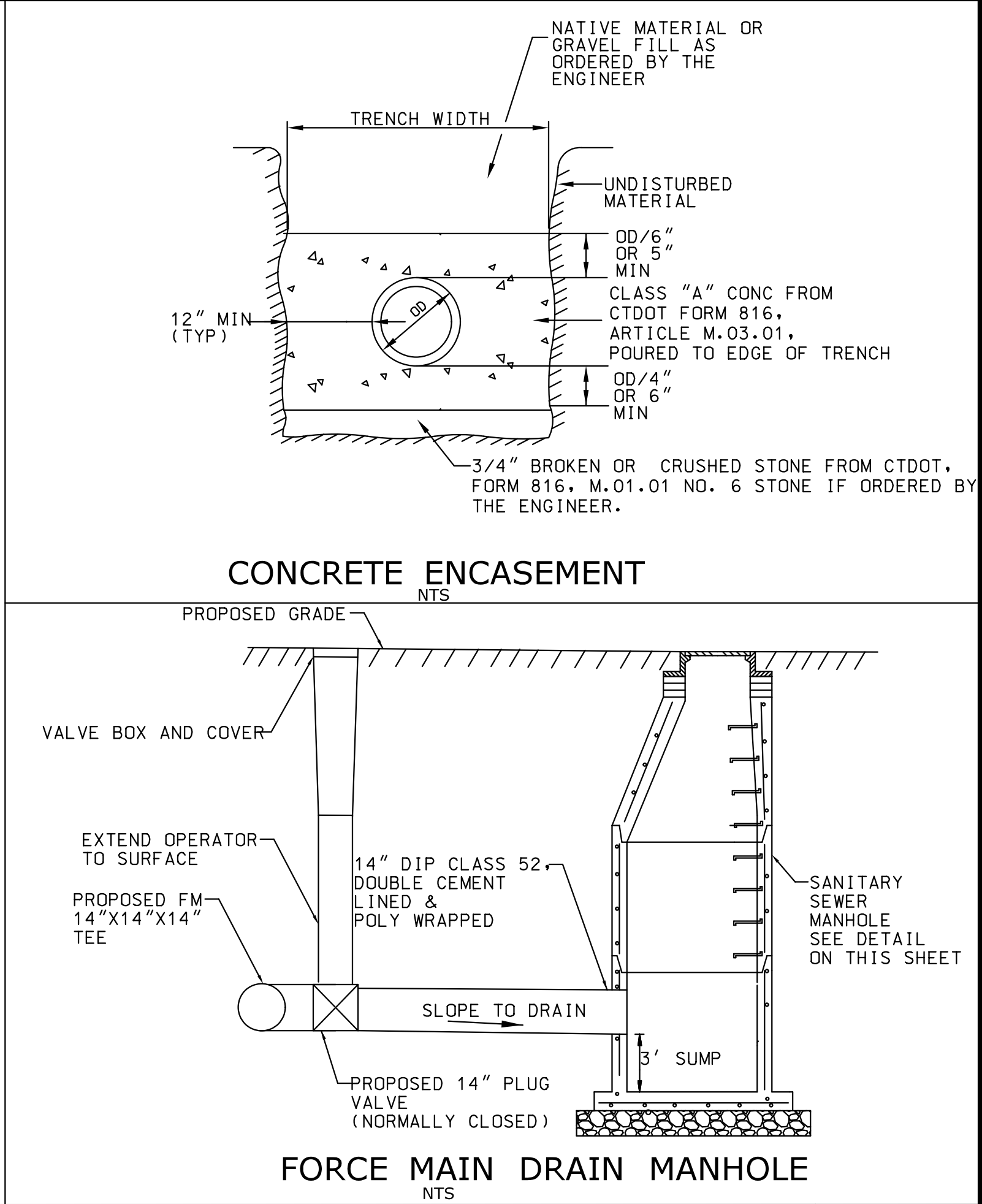
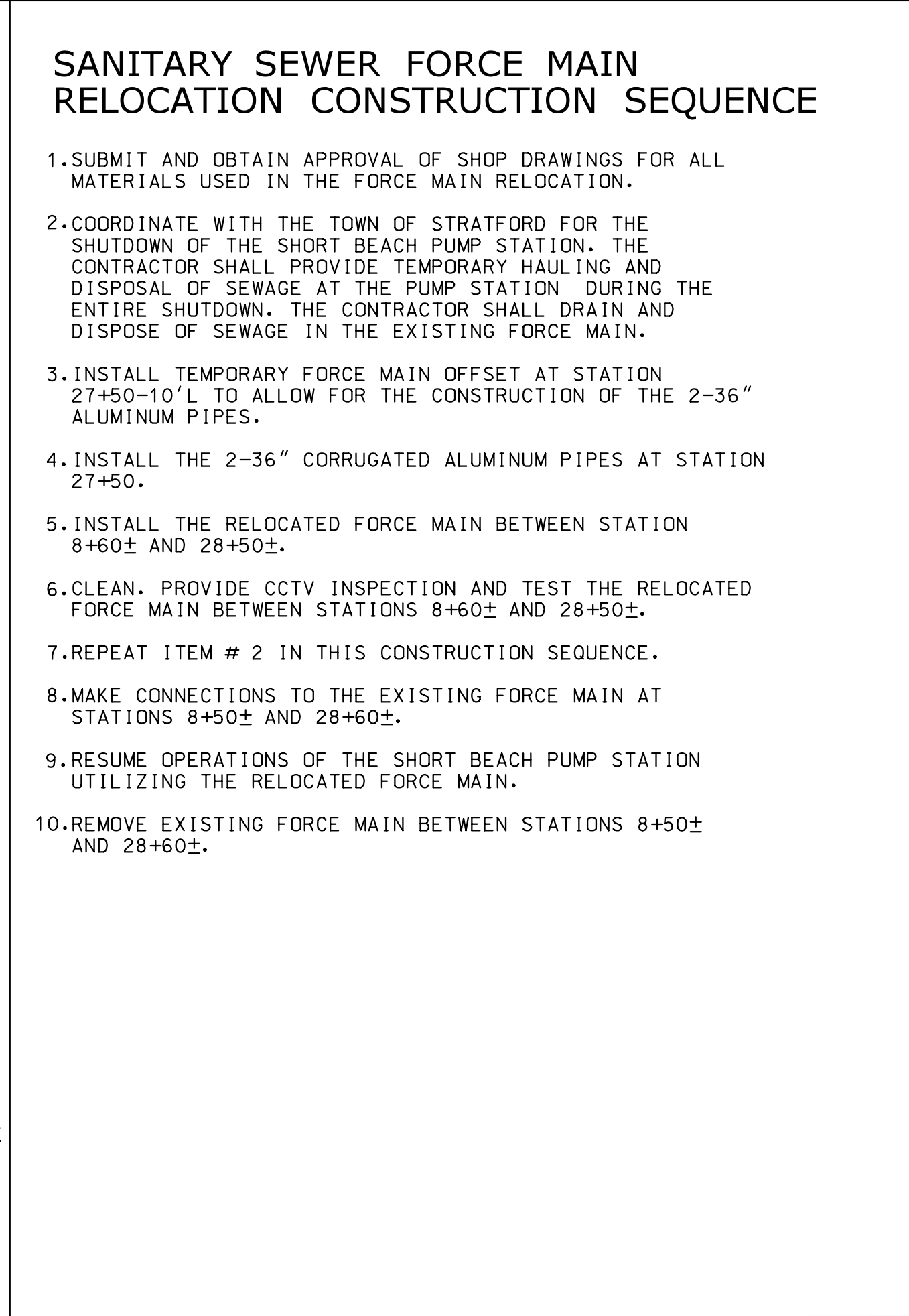
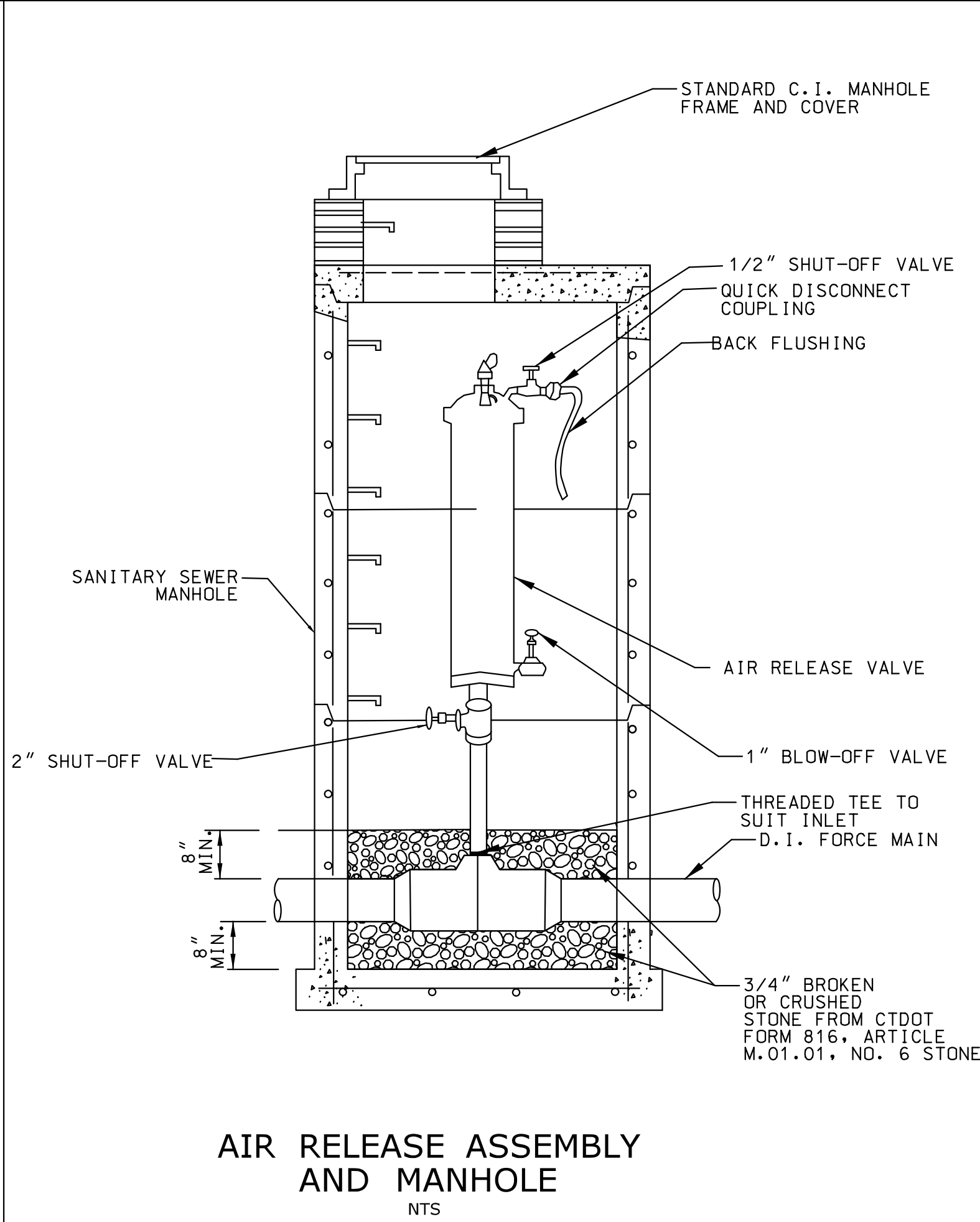
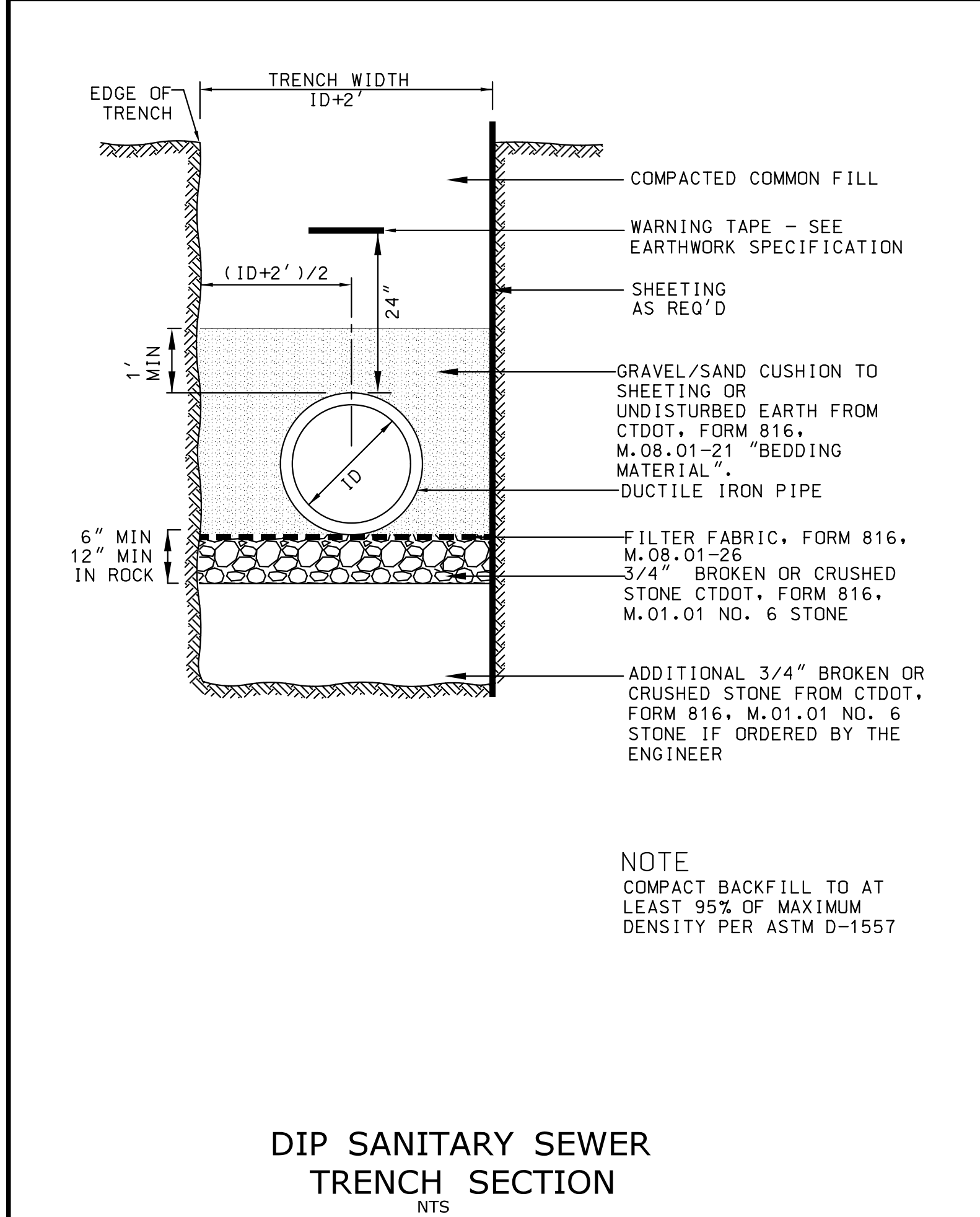
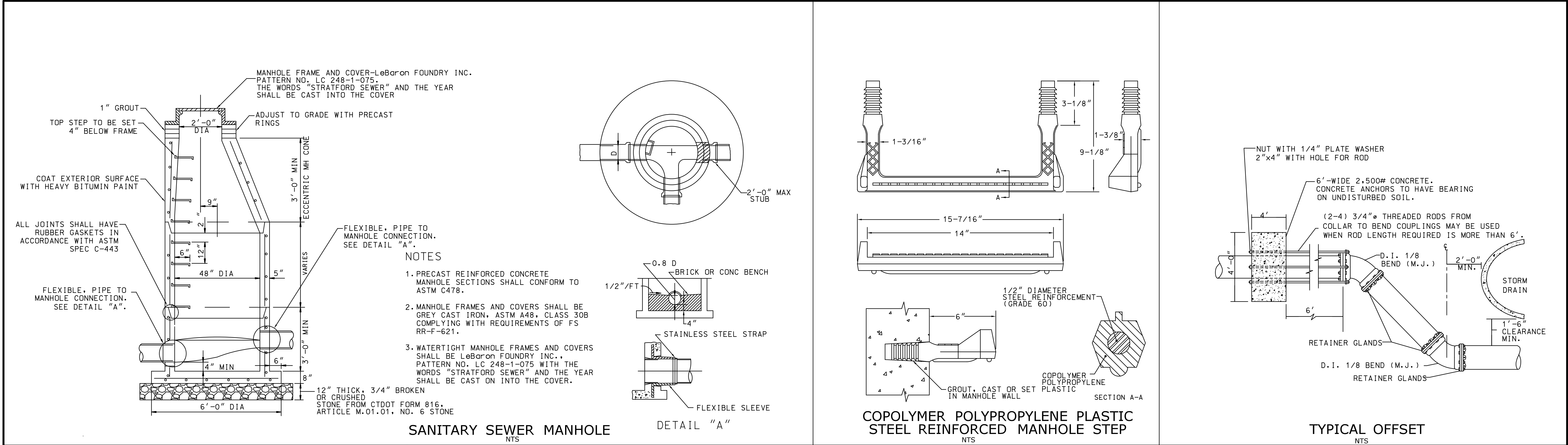
15-336

DRAWING NO.

SFM-5.03

SHEET NO.





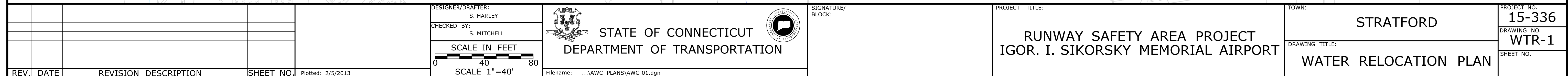
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				CHECKED BY: P.SAMMIS					DRAWING NO. SFM-5.04
				SCALE AS NOTED					SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted: 6/24/2013					



1. AT&T WILL CONSTRUCT THE FIRST 25' OF PROPOSED AT&T DUCTBANK AND MAKE ALL CONNECTIONS INTO THE EXISTING AT&T VAULT. THE CONTRACTOR IS TO BEGIN THE PROPOSED AT&T DUCTBANK AT THE LOCATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE TIE-IN WITH AT&T PRIOR TO DUCTBANK CONSTRUCTION BY CONTRACTOR.
2. ALL SOUTHERN CONNECTICUT GAS UTILITY RELOCATIONS TO BE PERFORMED BY SOUTHERN CONNECTICUT GAS.
3. REMOVAL OF ALL EXISTING UTILITY LINES TO BE PERFORMED BY THE CONTRACTOR AFTER PROPOSED UTILITIES ARE RELOCATED AND ACTIVE, AND ONLY AFTER RECEIVING APPROVAL BY THE ENGINEER.
4. CABLEVISION WILL RELOCATE THEIR AERIAL LINES TO EXISTING UTILITY POLE #3385 AND MAKE ALL CONNECTIONS TO THE PROPOSED DUCTBANK

1. THE WATER/METER VAULT AT STATION 12+50 ON THE ARMY ENGINE PLANT PROPERTY IS TO BE REPLACED.

1. THE WATER/METER VAULT AT STATION 12+50 ON THE ARMY ENGINE PLANT PROPERTY IS TO BE REPLACED.





NOTES:

1. ALL SOUTHERN CONNECTICUT GAS UTILITY RELOCATIONS TO BE PERFORMED BY SOUTHERN CONNECTICUT GAS.
2. REMOVAL OF ALL EXISTING UTILITY LINES TO BE PERFORMED BY THE CONTRACTOR AFTER PROPOSED UTILITIES ARE RELOCATED AND ACTIVE, AND ONLY AFTER RECEIVING APPROVAL BY THE ENGINEER.
3. REMOVE EXISTING CABLEVISION VAULT ONCE THE PROPOSED LINE IS ACTIVE AND THE EXISTING CABLE HAS BEEN REMOVED.

6" GAS (SOUTHERN CONNECTICUT GAS)  
SEE NOTE 1

CABLEVISION DUCTBANK  
(2 DUCTS CONCRETE ENCASED)

ATT DUCTBANK (8 DUCTS CONCRETE ENCASED)

UI DUCTBANK (8 DUCTS CONCRETE ENCASED)

14" SANITARY FORCE MAIN  
SEE DRAWING SFM-5.02

PROPOSED ATT  
VAULT #640 (10'X5'X7')

PROPOSED UI VAULT

PROPOSED  
CABLEVISION VAULT

PROPOSED UI VAULT

PROPOSED ATT VAULT #??? (10'X5'X7')

PROPOSED UI VAULT

REMOVE EXISTING  
CABLE BOX

REMOVE EXISTING  
ELECTRIC MANHOLE

8"X6"X8" TEE

6" GATE VALVE  
HYDRANT

PROPOSED 8" D.I. WATER MAIN

PROPOSED 16" D.I. WATER MAIN

REMOVE EXISTING GAS LINE

EXISTING CT ROUTE 113  
(MAIN STREET)

REMOVE EXISTING  
CABLEVISION MANHOLE  
SEE NOTE 3

REMOVE EXISTING TELEPHONE LINE

REMOVE EXISTING ELECTRIC LINES

REMOVE EXISTING WATER LINES

REMOVE EXISTING SANITARY FORCE MAIN

20'- 24" SCHEDULE 40  
GALVANIZED STEEL  
CASING WITH 16"  
DUCTILE IRON WATER  
MAIN

20'- 16" SCHEDULE 40  
GALVANIZED STEEL  
CASING WITH 8"  
DUCTILE IRON WATER  
MAIN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

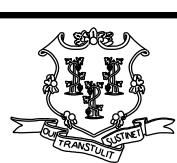
Plotted: 2/5/2013

DESIGNER/DRAFTER:  
S. HARLEY

CHECKED BY:  
S. MITCHELL

SCALE IN FEET

0 40 80  
SCALE 1"=40'



STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Filename: ...\\AWC PLANS\\AWC-02.dgn



SIGNATURE/  
BLOCK:

PROJECT TITLE:

RUNWAY SAFETY AREA PROJECT  
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN:

STRATFORD

DRAWING TITLE:

WATER RELOCATION PLAN

PROJECT NO.

15-336

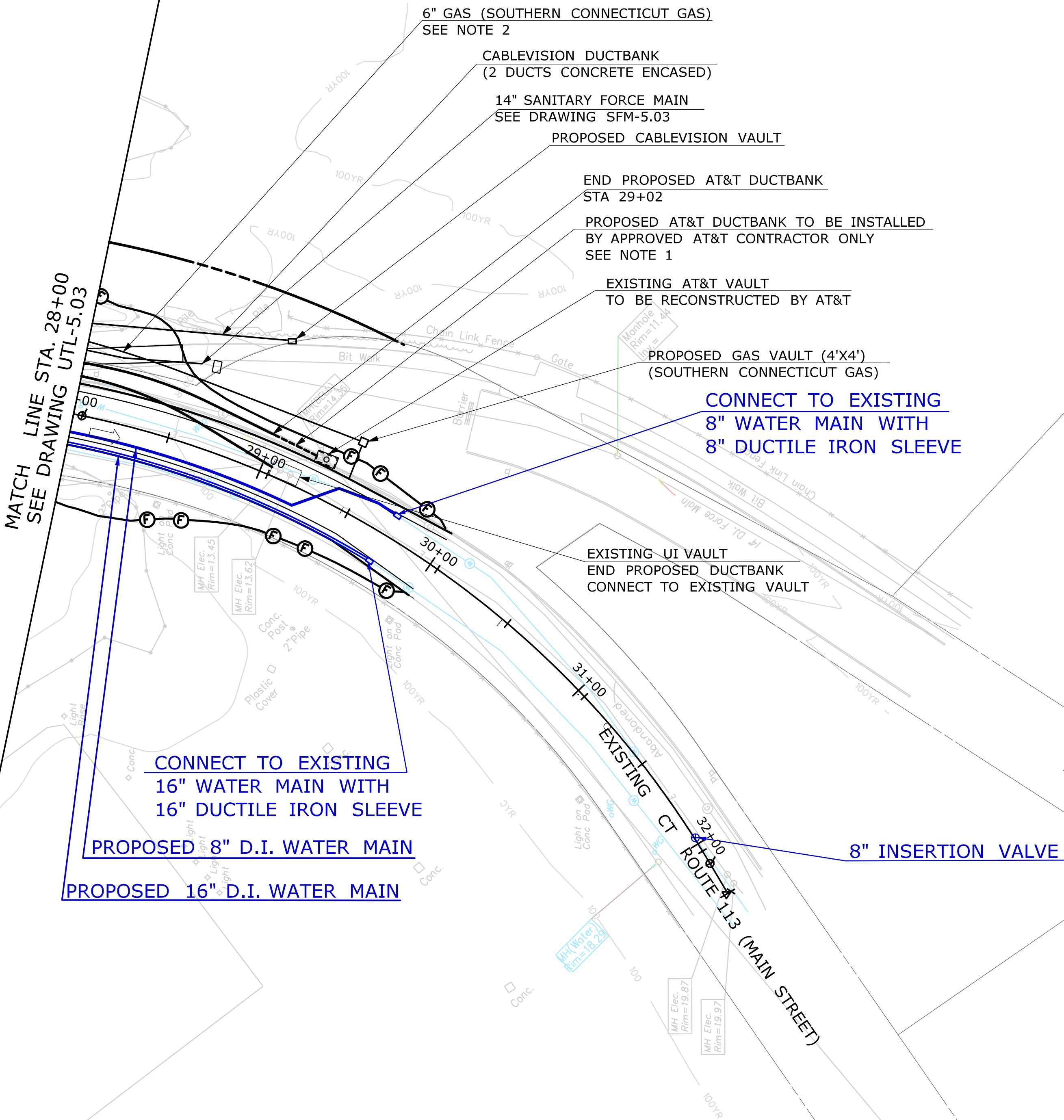
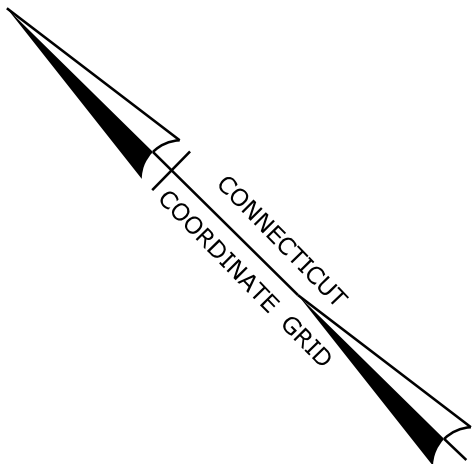
DRAWING NO.

WTR-2

SHEET NO.



- NOTES:
1. AT&T WILL CONSTRUCT THE FIRST 25' OF PROPOSED AT&T DUCTBANK AND MAKE ALL CONNECTIONS INTO THE EXISTING AT&T VAULT. THE CONTRACTOR IS TO BEGIN THE PROPOSED AT&T DUCTBANK AT THE LOCATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE TIE-IN WITH AT&T PRIOR TO DUCTBANK CONSTRUCTED BY CONTRACTOR
  2. ALL SOUTHERN CONNECTICUT GAS UTILITY RELOCATIONS TO BE PERFORMED BY SOUTHERN CONNECTICUT GAS.
  3. REMOVAL OF ALL EXISTING UTILITY LINES TO BE PERFORMED BY THE CONTRACTOR AFTER PROPOSED UTILITIES ARE RELOCATED AND ACTIVE, AND ONLY AFTER RECEIVING APPROVAL BY THE ENGINEER.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted: 2/5/2013

DESIGNER/DRAFTER:  
S. HARLEY

CHECKED BY:  
S. MITCHELL

SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Signature/Block:

Filename: ...\\AWC PLANS\\AWC-03.dgn

PROJECT TITLE:

RUNWAY SAFETY AREA PROJECT  
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN:

STRATFORD

DRAWING TITLE:

WATER RELOCATION PLAN

PROJECT NO.

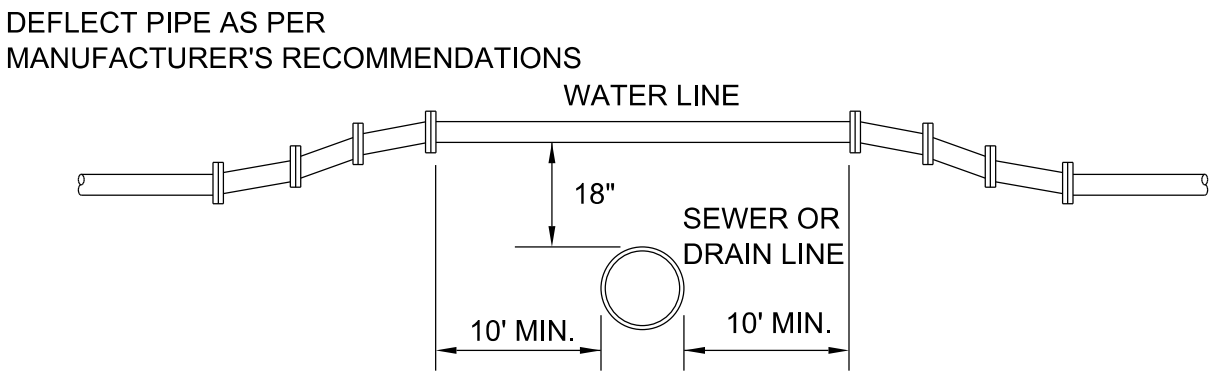
15-336

DRAWING NO.

WTR-3

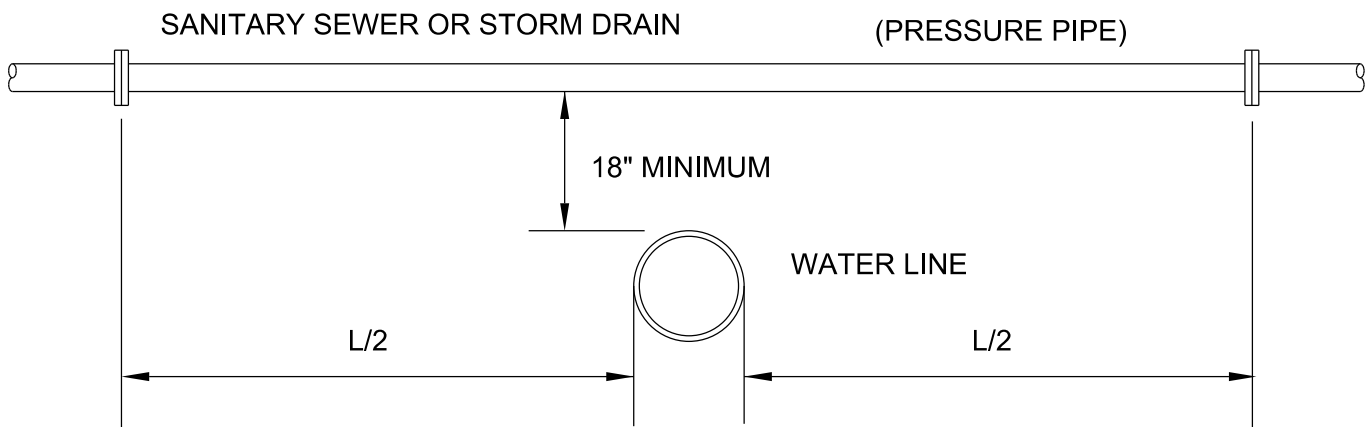
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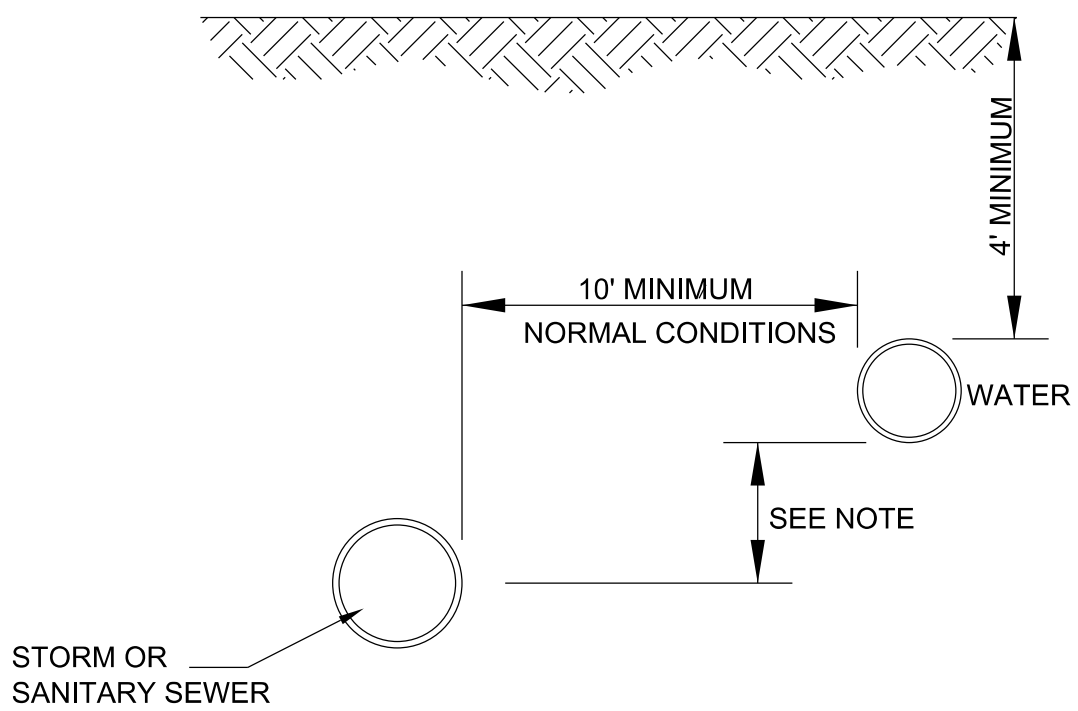
NOTE:  
FOR ANY CONDITIONS OTHER THAN SHOWN ABOVE THE FOLLOWING REQUIREMENTS SHALL BE MET. THE JOINTS OF THE SANITARY SEWER OR STORM DRAIN SHALL BE A MINIMUM OF 10' FROM THE POINT OF CROSSING.

**CROSSING OF WATER LINE OVER  
SANITARY SEWER OR STORM DRAIN**  
N.T.S.



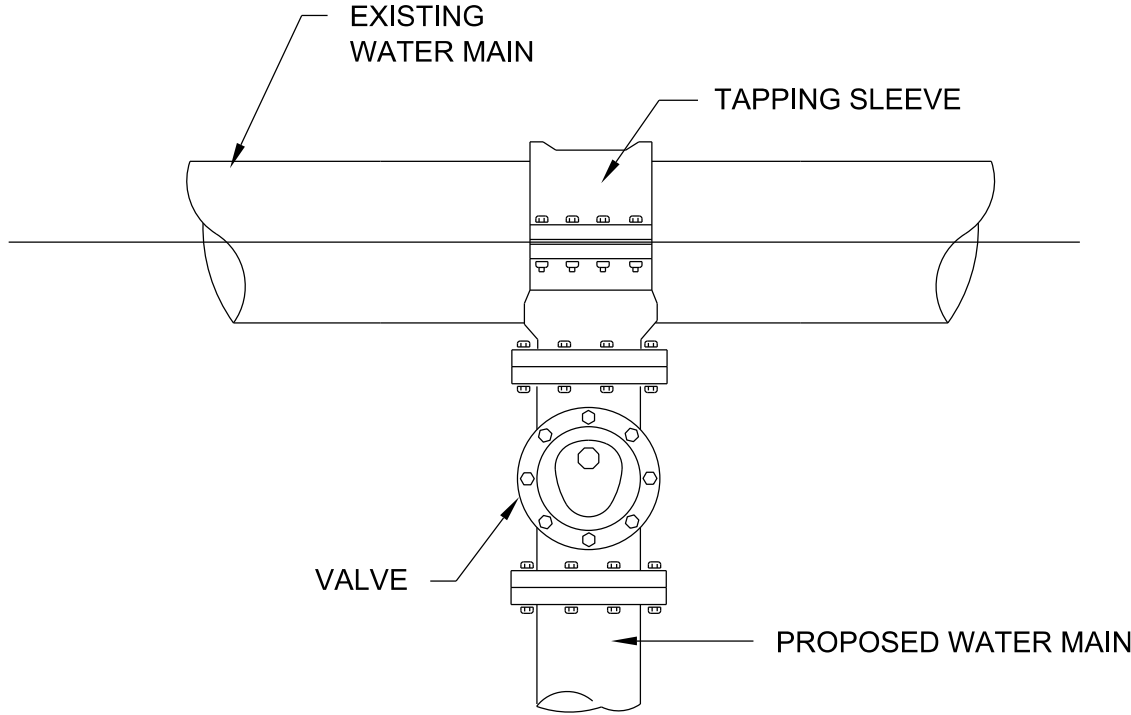
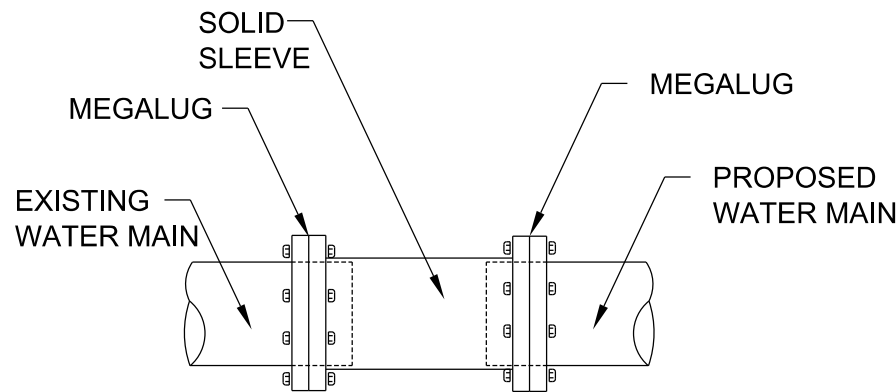
NOTE :  
WHERE WATER LINE PASSES BENEATH SEWER LINE OR STORM DRAIN, THE JOINTS OF THE PIPE SHALL BE A MIN. OF 10' FROM THE POINT OF CROSSING

**CROSSING OF WATER LINE UNDER  
SANITARY SEWER OR STORM DRAIN**  
N.T.S.

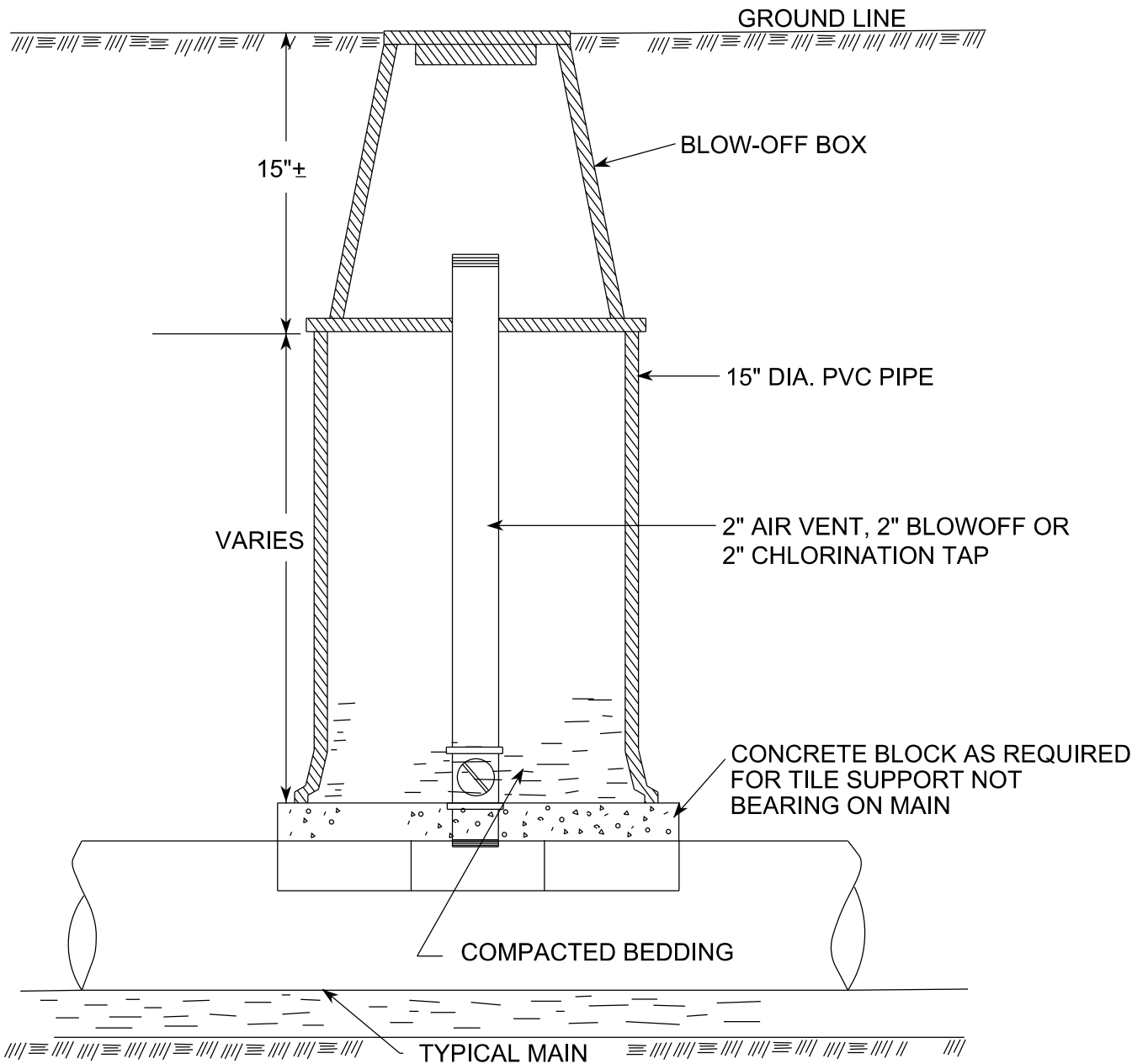


NOTE:  
WHERE A 10' HORIZONTAL SEPARATION CANNOT BE OBTAINED DUE TO FIELD CONDITIONS, THE VERTICAL CLEAR DISTANCE SHALL BE A MINIMUM OF 18" HOWEVER, AN EXCEPTION TO THE 10' MINIMUM HORIZONTAL SEPARATION REQUIRES SEPARATE APPROVAL OF THE HEALTH DEPT.

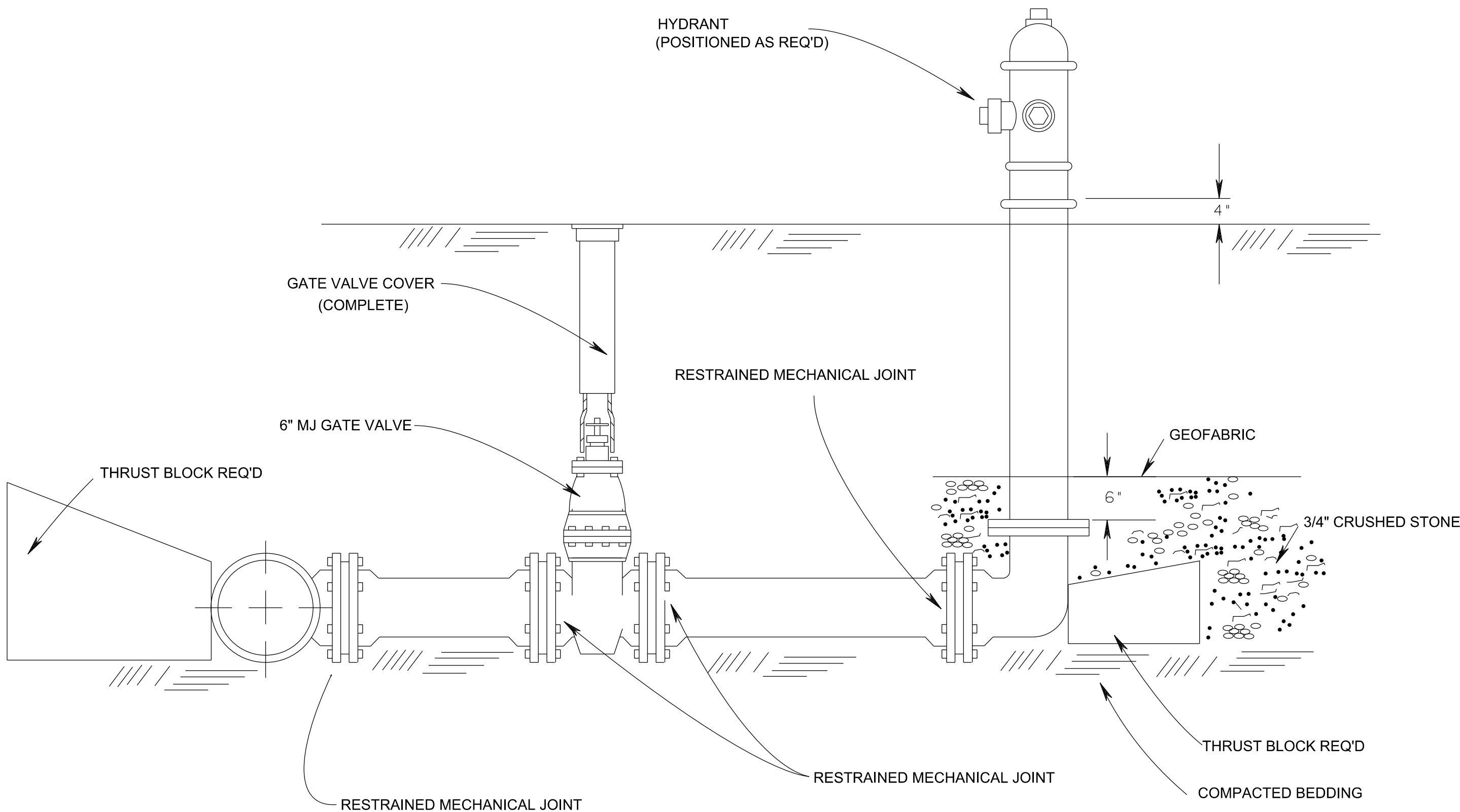
**SEPARATION OF WATER MAINS AND  
SEWERS - PARALLEL INSTALLATION**  
N.T.S.



**CONNECTION TO EXIST. WATER MAIN**  
N.T.S.



**ENCLOSURE FOR 2" AIR VENT, 2" BLOWOFF AND 2" CHLORINATION TAP**  
N.T.S.



**TYPICAL HYDRANT INSTALLATION**  
N.T.S.

**WEDGE**  
MANUFACTURING

78 Thomson Road  
Bethlehem, CT 06751  
Phone: 203.266.7175 / Fax: 203.266.7297



WEDGE Air Vent / Blow Off System Details.

NOTE:  
ANY SUBSTITUTION SHALL BE APPROVED BY THE AQUARION WATER COMPANY.

**2" AIR VENT, 2" BLOWOFF AND 2" CHLORINATION TAP**  
N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 2/5/2013

DESIGNER/DRAFTER:

CHECKED BY:

SCALE IN FEET  
0 40 80  
SCALE 1"=40'



Filename: ...\\AWC\_PLANS\\AWC-04.dgn

SIGNATURE/  
BLOCK:

PROJECT TITLE:

RUNWAY SAFETY AREA PROJECT  
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN:

STRATFORD

DRAWING TITLE:

WATER DETAILS

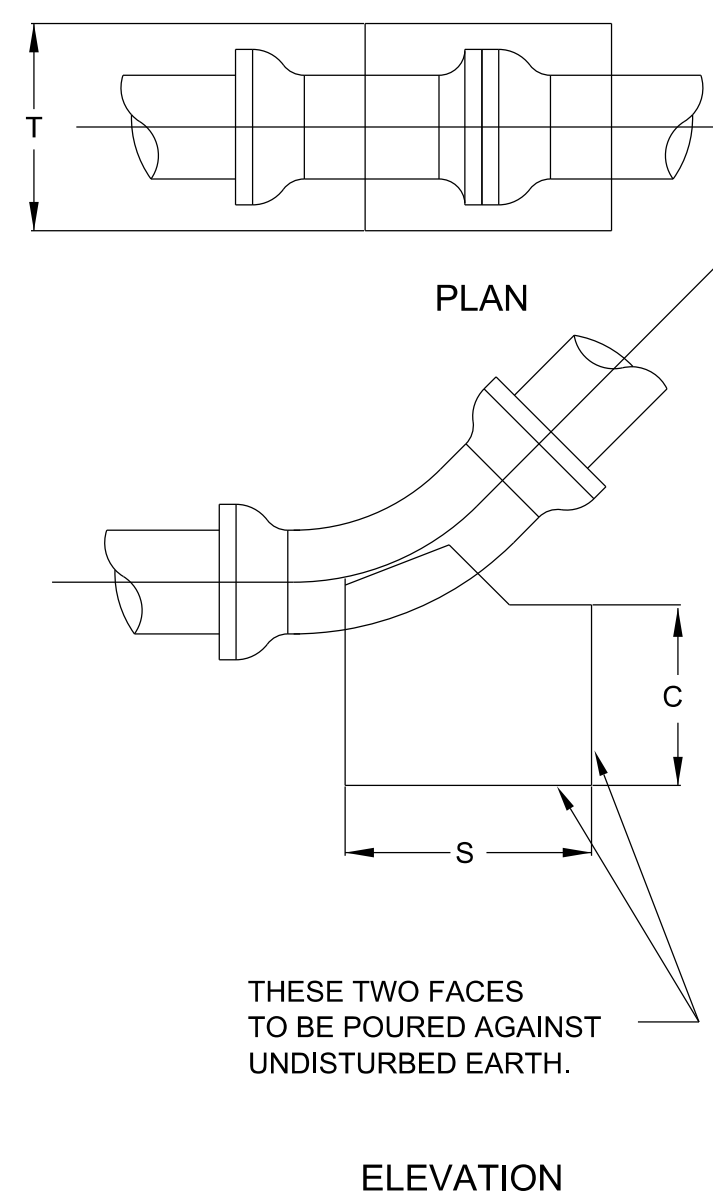
PROJECT NO.

15-336

DRAWING NO.

WTR-4

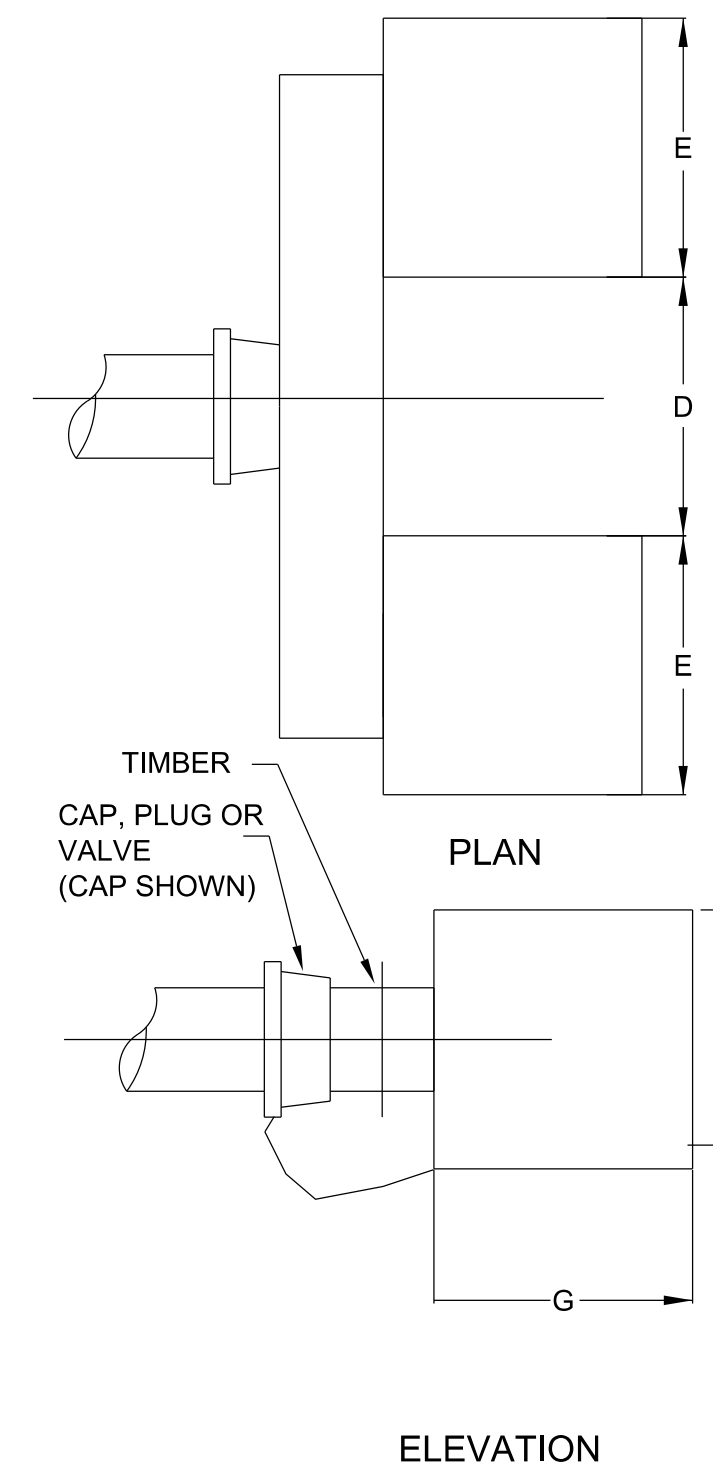
SHEET NO.



PIPE DIAM. IN.	BLOCK DIMENSIONS				CONCRETE VOLUME CU. FT.
	BEND	S IN.	T IN.	U IN.	
16	90	48	48	48	640
	45	48	34	20	189
	22 1/2	42	20	18	88
	11 1/4				(3)
12	90	36	36	36	270
	45	36	24	18	90
	22 1/2	28	18	12	35
	11 1/4				(3)
10	90	30	30	30	156
	45	30	20	18	63
	22 1/2	22	16	12	24
	11 1/4				(3)
8	90	24	24	24	80
	45	24	16	12	27
	22 1/2	18	12	12	15
	11 1/4				(3)
6	90	18	18	18	34
	45	18	12	12	15
	22 1/2	12	12	12	10
	11 1/4				(3)

- NOTES:
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
  - BEND TO BE SET AGAINST UNDISTURBED EARTH, BACKFILL TO BE FIRMLY TAMPED, OR BLOCK TO BE FURNISHED AS DIRECTED BY THE ENGINEER.

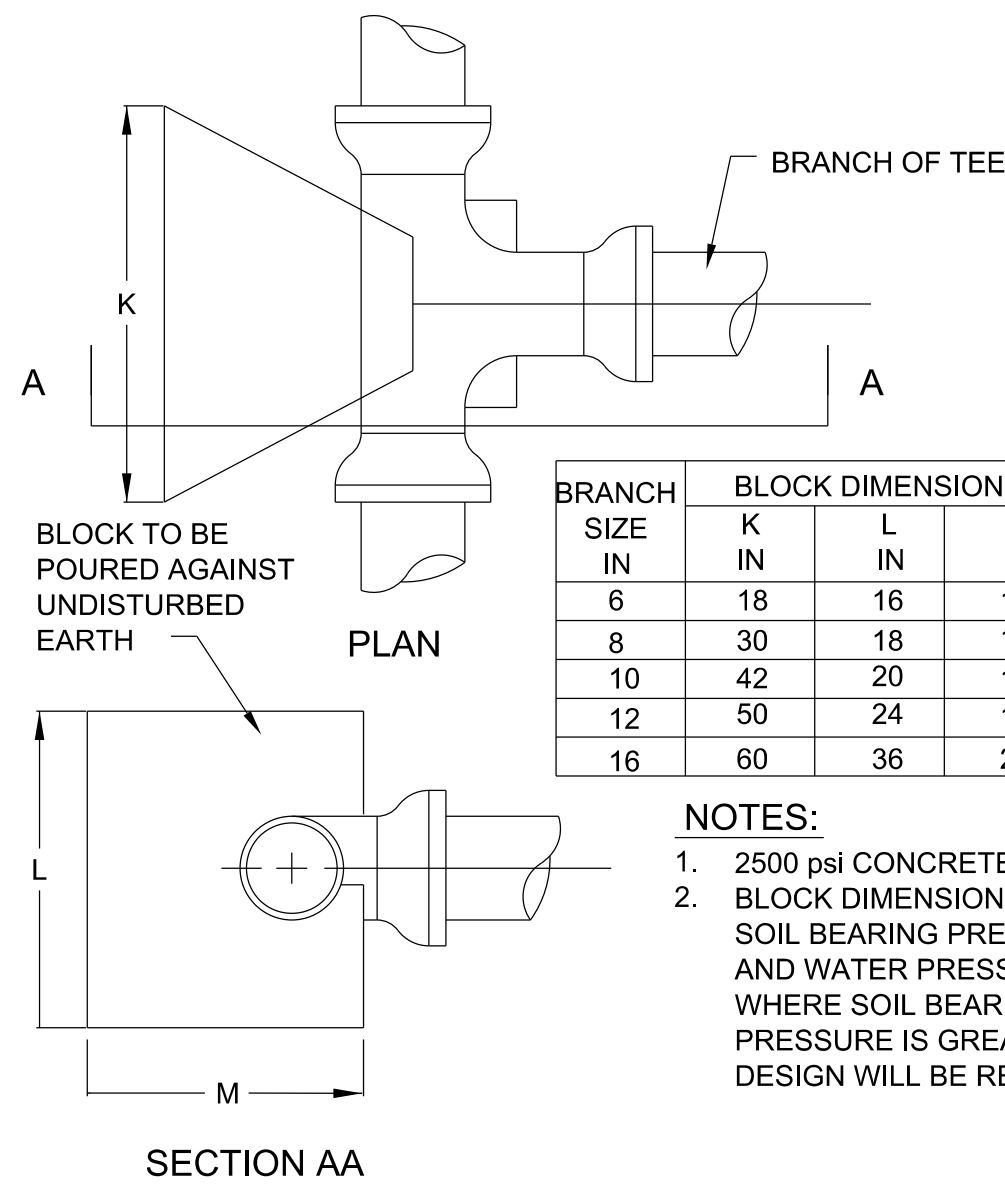
#### SAG VERTICAL BENDS



PIPE DIAM. IN	BLOCK DIMENSIONS			CONCRETE VOLUME FT.
	E IN	F IN	G IN	
4	NONE REQUIRED			
6	12	12	12	20
8	16	16	16	46
10	20	20	20	93
12	24	24	24	160
16	32	32	32	380
PIPE DIAM. IN	TIMBER			CLEARANCE D IN.
	NO. BEAMS	NOM. SIZE	LENGTH IN	
4	NONE REQUIRED			
6	1	6"x6"	34	18
8	1	8"x8"	42	20
10	1	10"x10"	48	22
12	1	12"x12"	56	24
16	2	10"x10"	72	30

- NOTES:
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
  - TIMBER TO BE DOUGLAS FIR CONSTRUCTION GRADE OR BETTER HORIZONTAL SHEAR 120 psi.
  - PROVIDE TAMPED BACKFILL AND/OR BLOCKING TO SUPPORT TIMBER.

#### DEAD ENDS

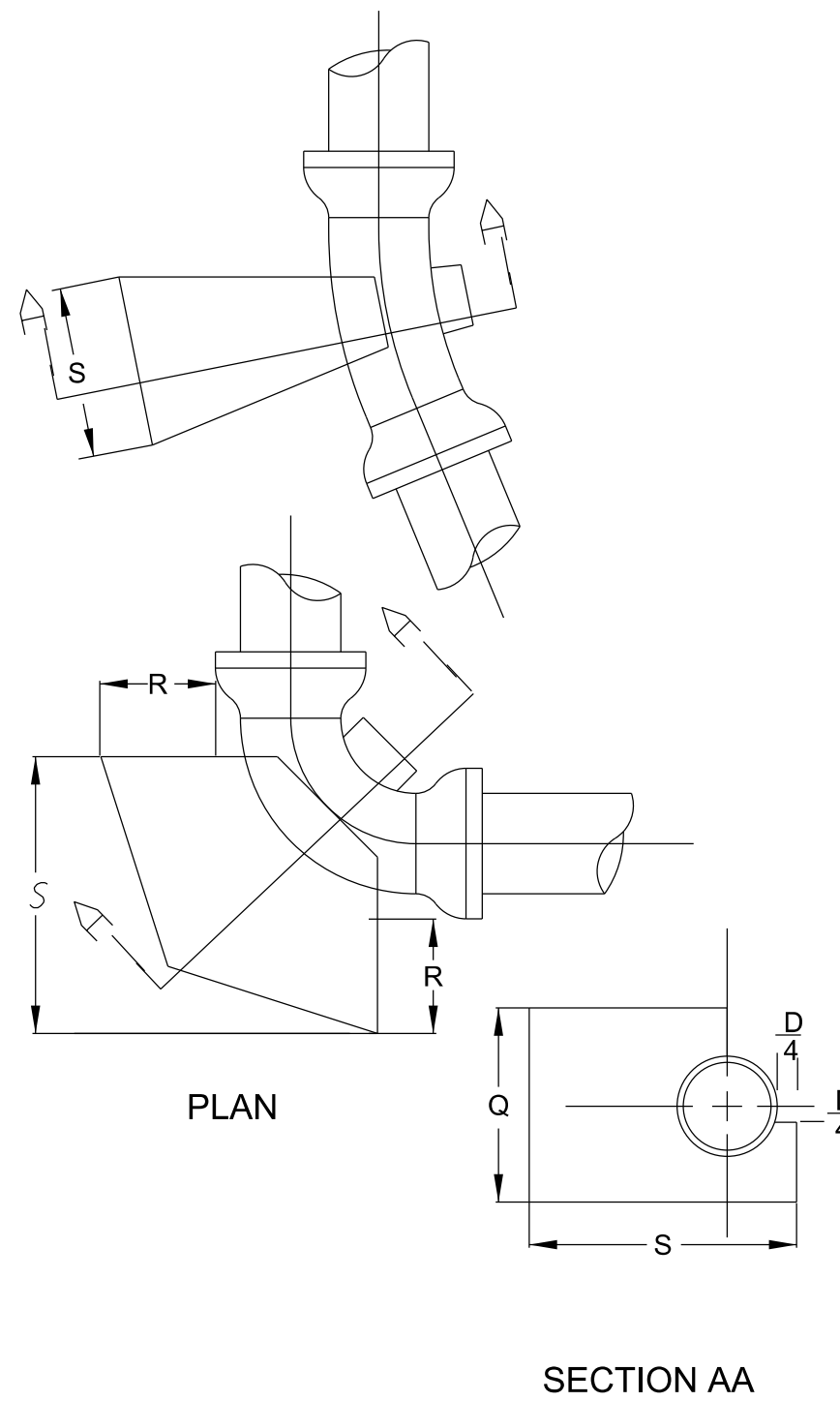


BRANCH SIZE IN.	BLOCK DIMENSIONS				CONCRETE VOLUME CU. FT.
	K IN.	L IN.	M IN.	N IN.	
6	18	16	12	24	24
8	30	18	12	40	
10	42	20	12	63	
12	50	24	16	113	
16	60	36	24	300	

- NOTES:
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.

#### TEES

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

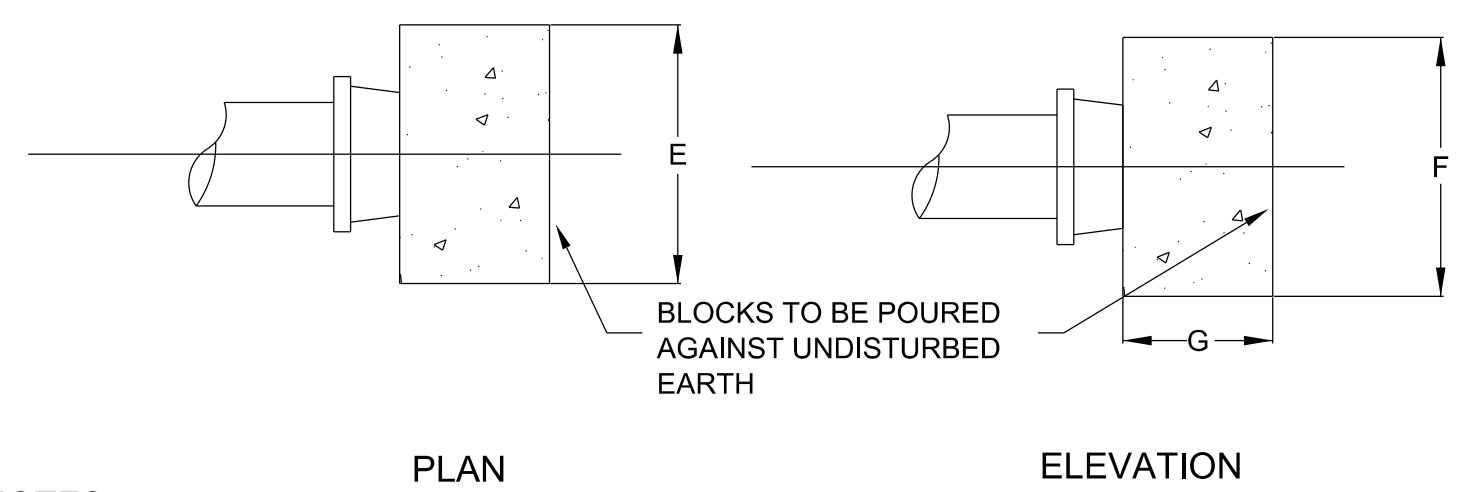


PIPE DIAM. IN.	BLOCK DIMENSIONS				CONCRETE VOLUME CU. FT.
	BEND	S IN.	Q IN.	R IN.	
16	90	48	48	48	640
	45	48	34	20	189
	22 1/2	42	20	18	88
	11 1/4				(3)
12	90	36	36	36	270
	45	36	24	18	90
	22 1/2	28	18	12	35
	11 1/4				(3)
10	90	30	30	30	156
	45	30	20	18	63
	22 1/2	22	16	12	24
	11 1/4				(3)
8	90	24	24	24	80
	45	24	16	12	27
	22 1/2	18	12	12	15
	11 1/4				(3)
6	90	18	18	18	34
	45	18	12	12	15
	22 1/2	12	12	12	10
	11 1/4				(3)

- NOTES:
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.

#### SECTION AA

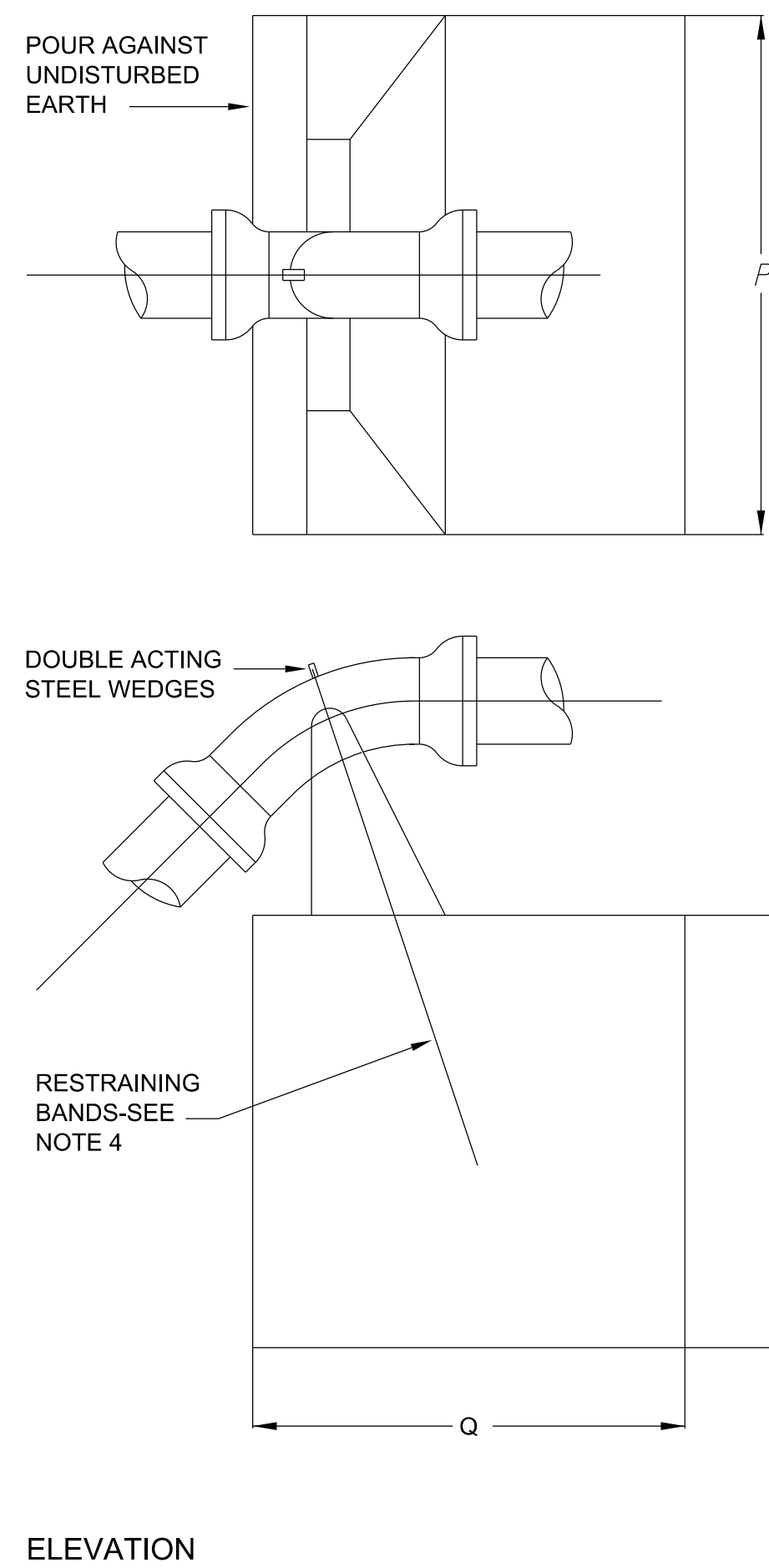
#### HORIZONTAL BENDS



- NOTES:
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
  - FOR USE ON ABANDONED LINES AND DEAD ENDS WHERE NO EXTENSION IS CONTEMPLATED.

PIPE DIAM. IN.	BLOCK DIMENSIONS			CONCRETE VOLUME CU. FT.
	E IN.	F IN.	G IN.	
6	20	16	12	22
8	28	20	12	39
10	30	24	12	50
12	42	30	14	102
16	52	42	18	227

#### CAPS, PLUGS AND VALVES



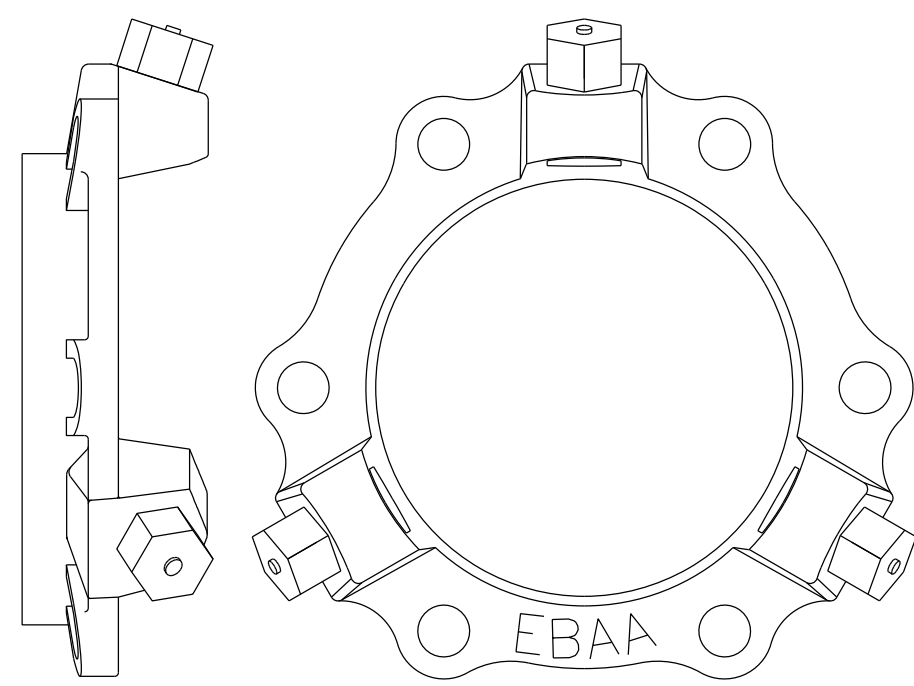
PIPE DIAM. IN.	BLOCK DIMENSIONS				CONCRETE VOLUME CU. YD.
	BEND	P IN.	Q IN.	R IN.	
16	45	72	60	56	52
	22 1/2	60	48	44	27
	11 1/4	60	36	36	14
12	45	60	48	48	3.0
	22 1/2	42	42	40	15
	11 1/4	34	34	34	0.84
10	45	54	42	42	2.0
	22 1/2	36	36	36	1.0
	11 1/4	30	30	30	0.58
8	45	48	36	36	1.3
	22 1/2	32	32	32	0.71
	11 1/4	26	26	26	0.38
6	45	42	30	28	0.76
	22 1/2	26	26	26	0.38
	11 1/4	24	24	24	0.30

- NOTES:
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
  - WHERE 90° CREST VERTICAL BEND IS REQUIRED APPROVAL MUST FIRST BE OBTAINED FROM THE ENGINEER. A SPECIAL DESIGN WILL BE REQUIRED.
  - 2-#6 REINFORCING RODS REQUIRED FOR 16" 45° BEND; 1#6 REINFORCING ROD REQUIRED FOR ALL OTHER BENDS. EXPOSED BARS TO BE PROVIDED WITH PROTECTIVE COATING.

#### CREST VERTICAL BENDS

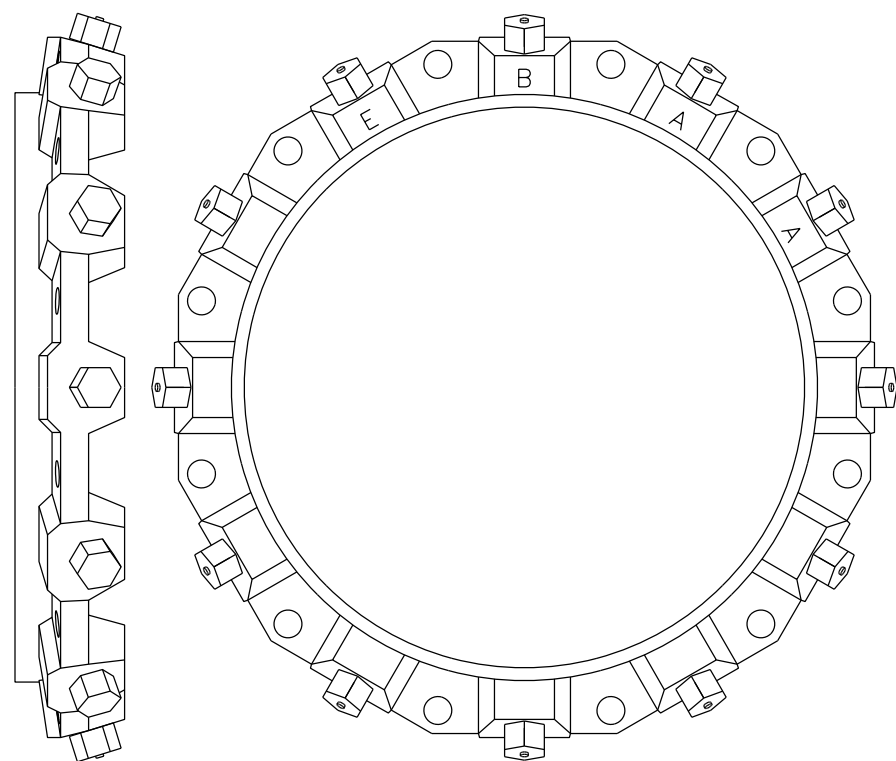
NOTE:  
IN ADDITION TO THE CONCRETE THRUST BLOCKS, ALL FITTINGS TO BE TIED TOGETHER WITH 3/4" GALVANIZED THREADED RODS, AND ANY OTHER SPECIALS AS DIRECTED BY THE WATER DISTRICT.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: CHECKED BY: SCALE IN FEET 0 40 80 SCALE 1"=40'	FILENAME: ...\\AWC PLANS\\AWC-05.dgn	SIGNATURE/ BLOCK:	PROJECT TITLE: RUNWAY SAFETY AREA PROJECT IGOR. I. SIKORSKY MEMORIAL AIRPORT	TOWN: STRATFORD DRAWING TITLE: WATER DETAILS	PROJECT NO. 15-336 DRAWING NO. WTR-5 SHEET NO.
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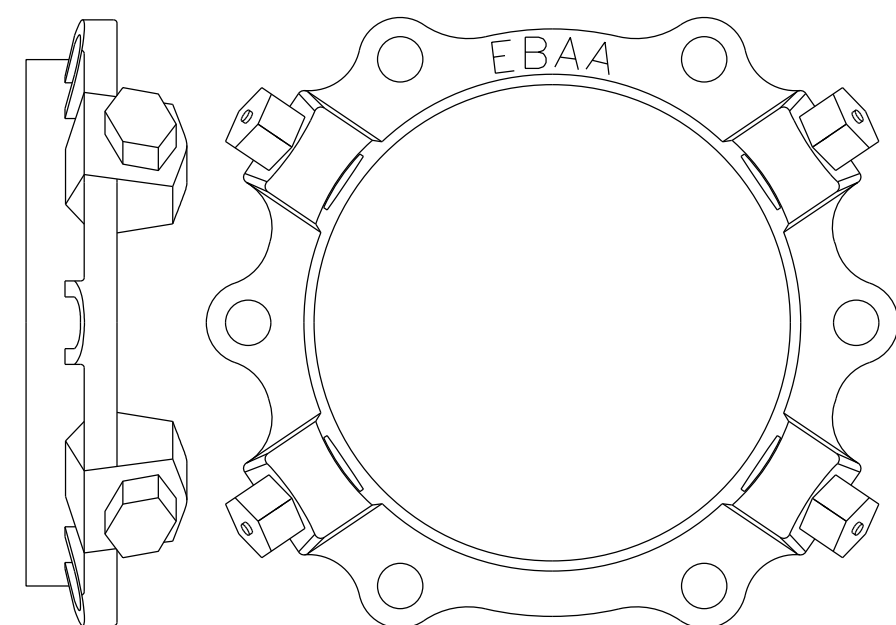
6" DIP RESTRAINT

EBAA IRON  
1106 MEALUG  
350 PSI RATING  
UL  
<FM>-RATED 175 PSI  
FOR USE ON DUCTILE IRON PIPE  
MADE IN THE USA



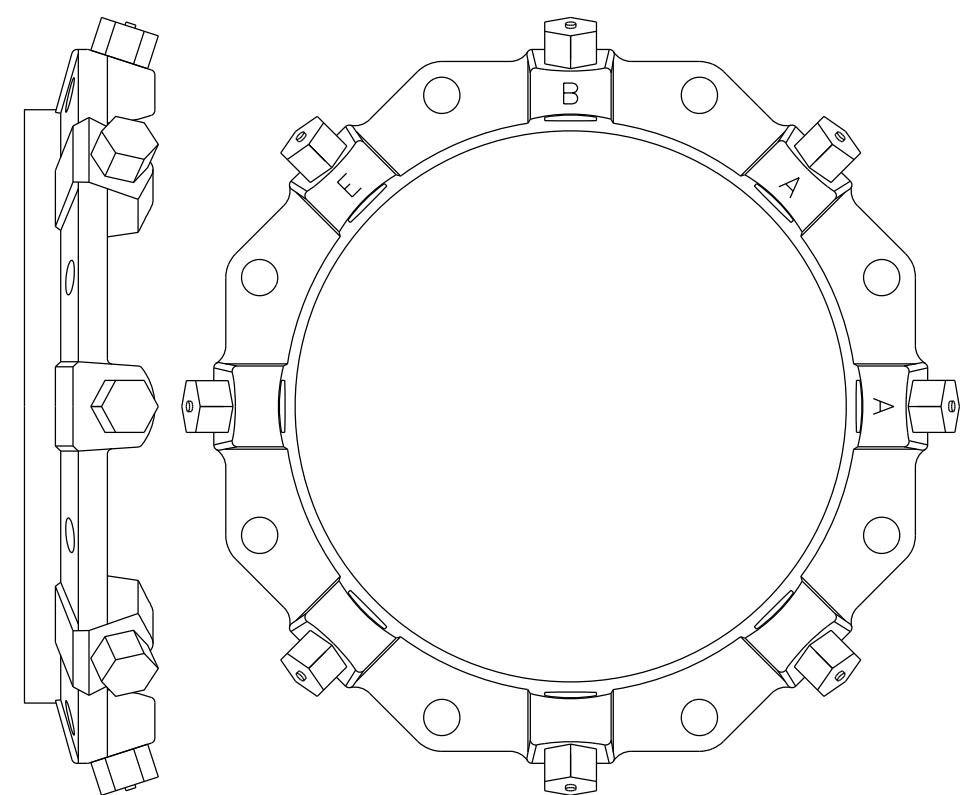
16" DIP RESTRAINT

EBAA IRON  
1116 MEALUG  
350 PSI RATING  
UL  
<FM>-RATED 175 PSI  
FOR USE ON DUCTILE IRON PIPE  
MADE IN THE USA



8" DIP RESTRAINT

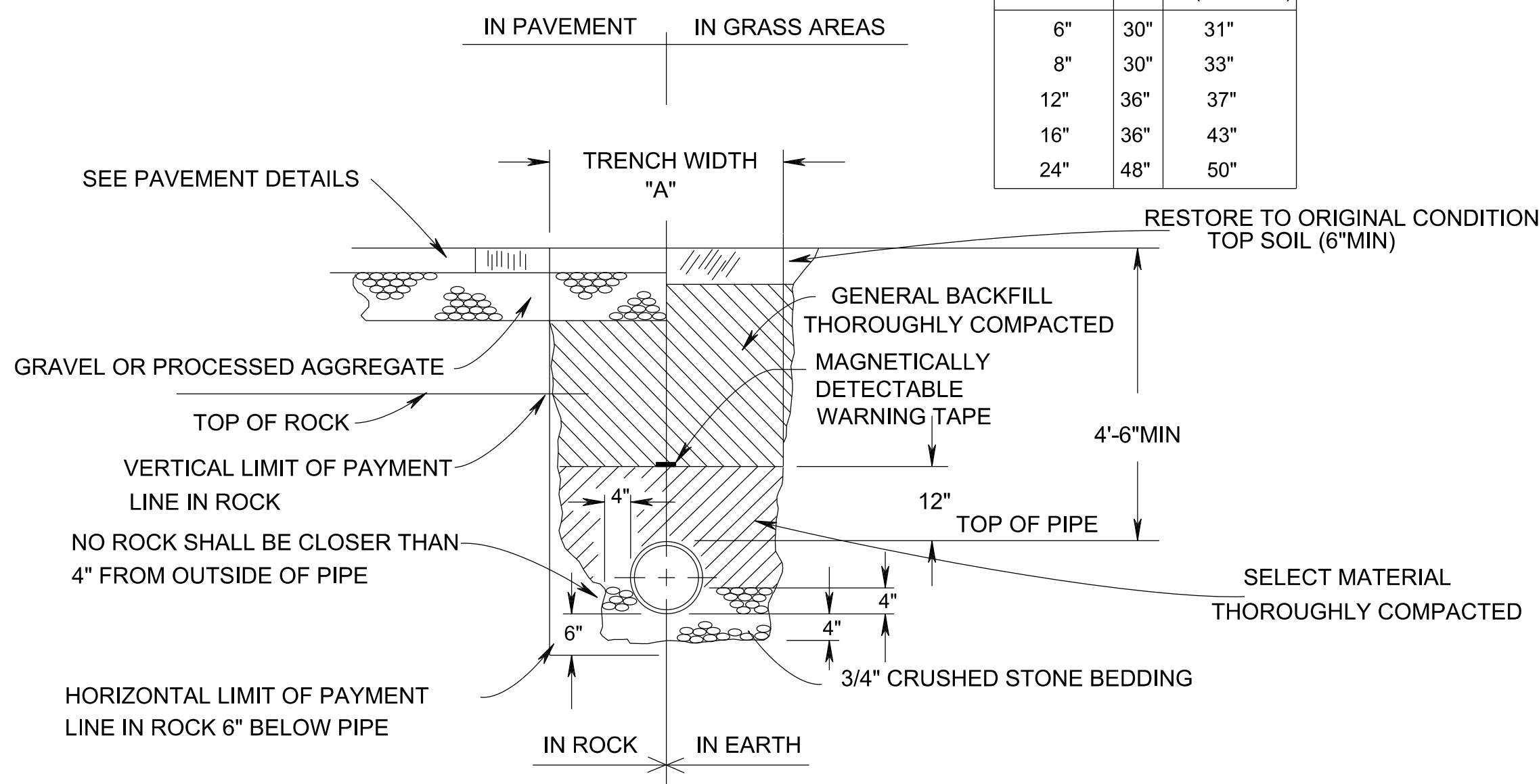
EBAA IRON  
1108 MEALUG  
350 PSI RATING  
UL  
<FM>-RATED 175 PSI  
FOR USE ON DUCTILE IRON PIPE  
MADE IN THE USA



12" DIP RESTRAINT

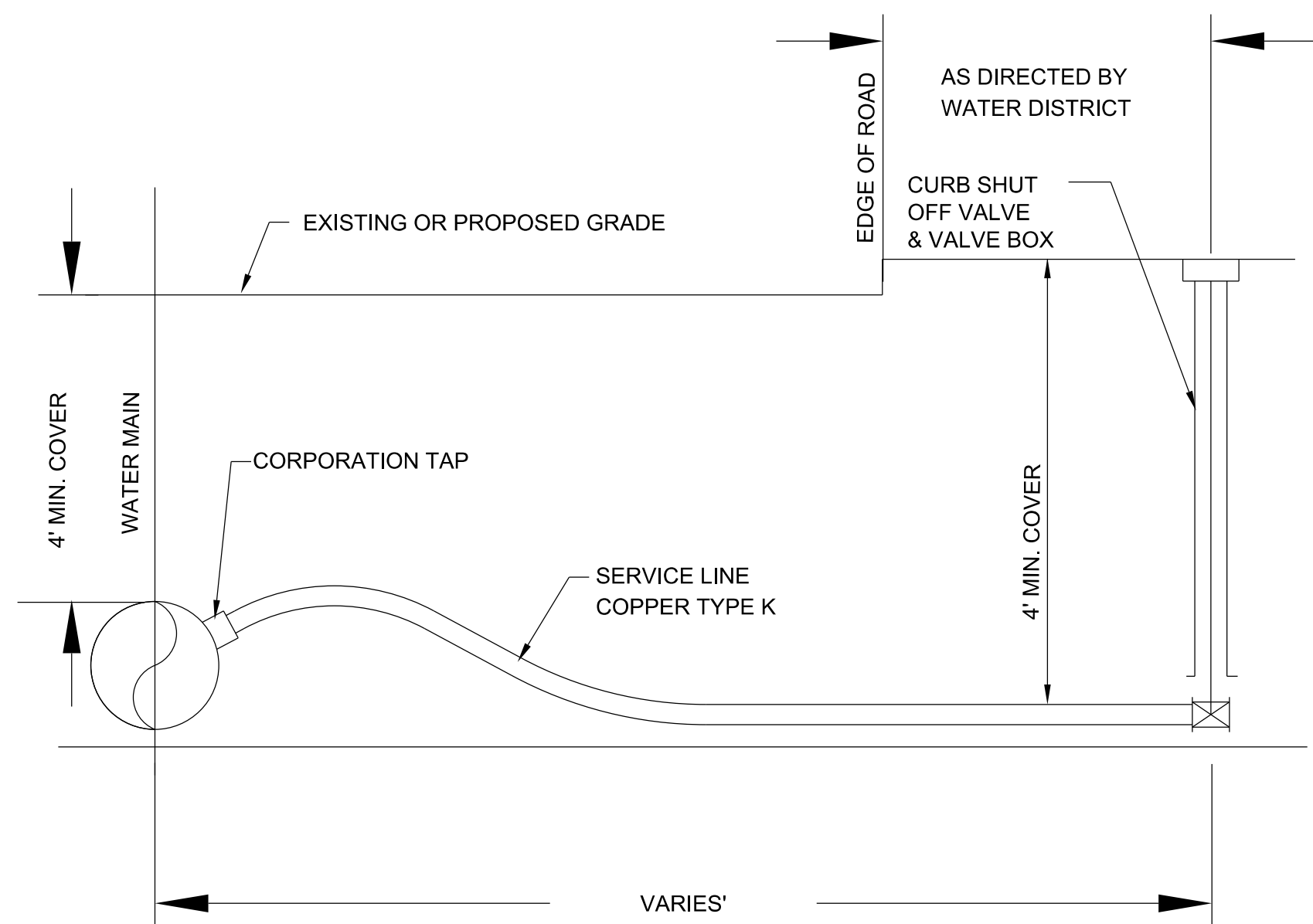
EBAA IRON  
1112 MEALUG  
350 PSI RATING  
UL  
<FM>-RATED 175 PSI  
FOR USE ON DUCTILE  
IRON PIPEMADE IN  
THE USA

"MEGALUG" D.I.P. PIPE RESTRAINTS  
N.T.S.



TYPICAL TRENCH DETAIL  
N.T.S.

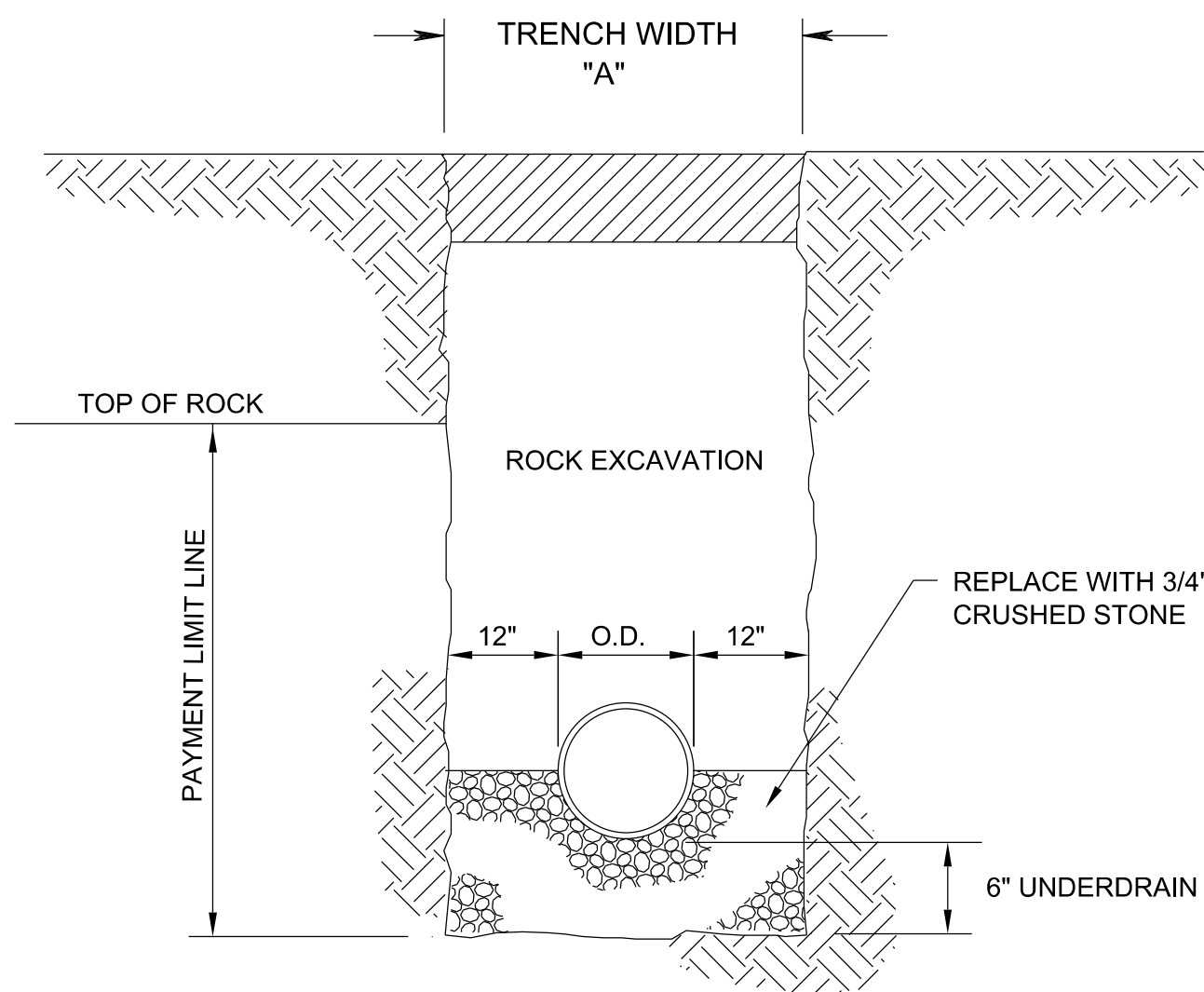
PIPE SIZE	TRENCH WIDTH	
	"A"	"A" (IN ROCK)
6"	30"	31"
8"	30"	33"
12"	36"	37"
16"	36"	43"
24"	48"	50"



NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL CORPORATION TAP, SERVICE LINE, AND CURB SHUT OFF VALVE AND VALVE BOX.
2. CONTRACTOR TO EXCAVATE, MAINTAIN, BACKFILL, AND RESTORE TRENCH FOR THE TAP, SERVICE LINE, AND CURB SHUT OFF VALVE.
3. CONTRACTOR TO TAKE OUT PERMIT, PAY FEE, AND TO FOLLOW ALL RULES AND REGULATIONS OF THE LOCAL UTILITY AGENCY.

WATER SERVICE LINE LATERAL  
N.T.S.



ROCK EXCAVATION TRENCH  
(FOR ALL PIPES)  
N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 2/5/2013

DESIGNER/DRAFTER:

CHECKED BY:

SCALE IN FEET  
0 40 80  
SCALE 1"=40'



Filename: ...\\AWC PLANS\\AWC-06.dgn

SIGNATURE/  
BLOCK:

PROJECT TITLE:

RUNWAY SAFETY AREA PROJECT  
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN:

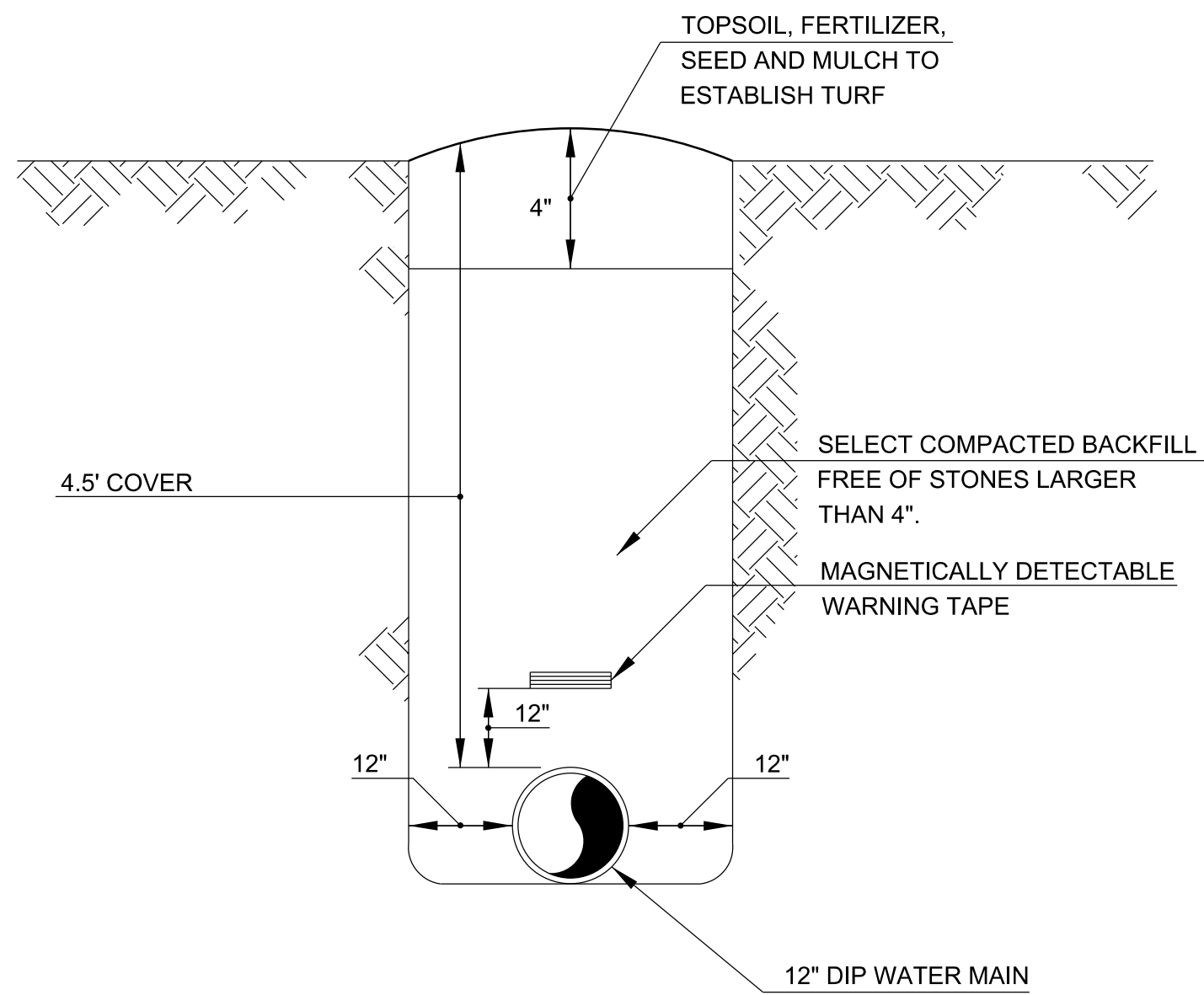
STRATFORD

DRAWING TITLE:

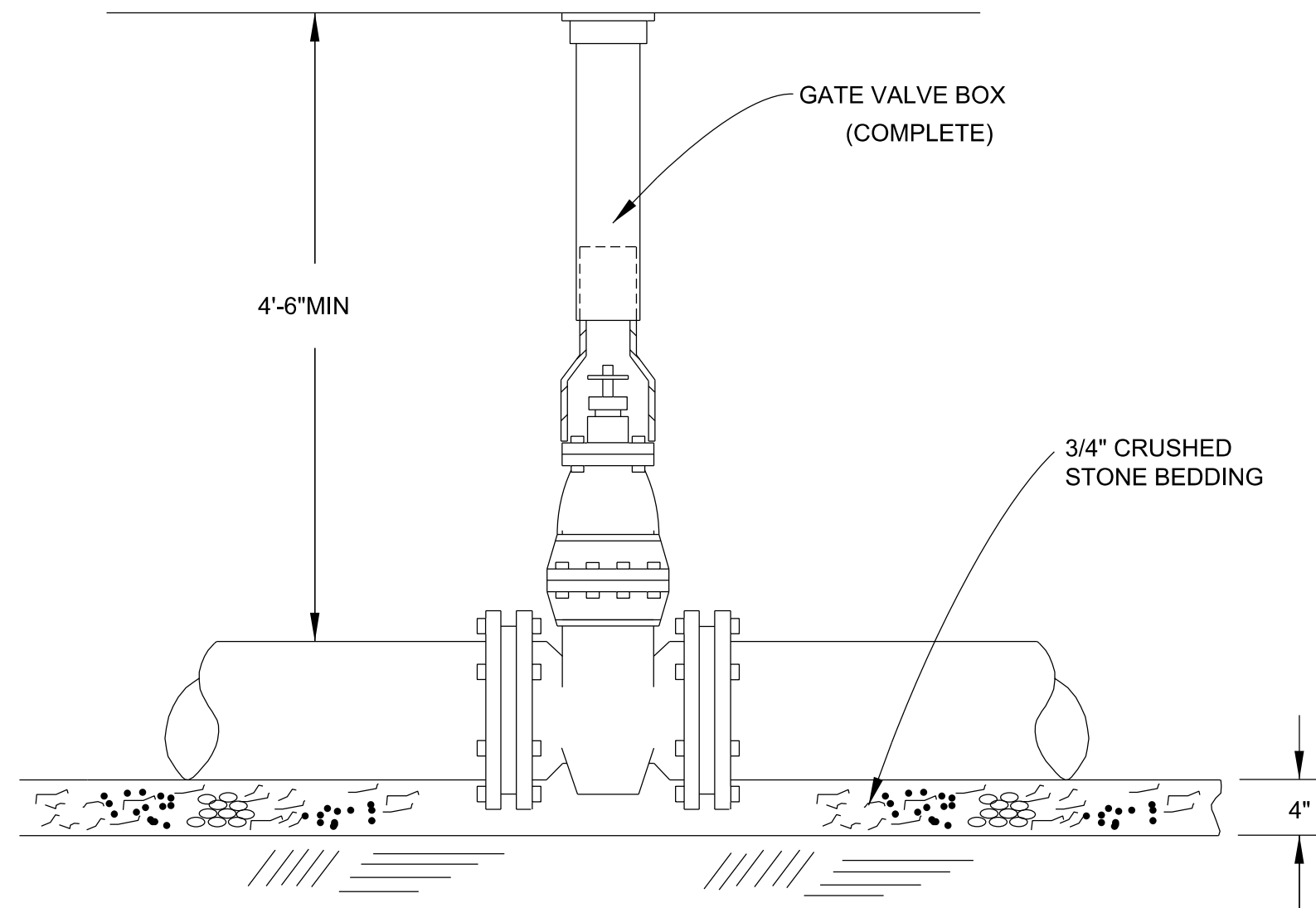
WATER DETAILS

PROJECT NO.  
15-336  
DRAWING NO.  
WTR-6  
SHEET NO.

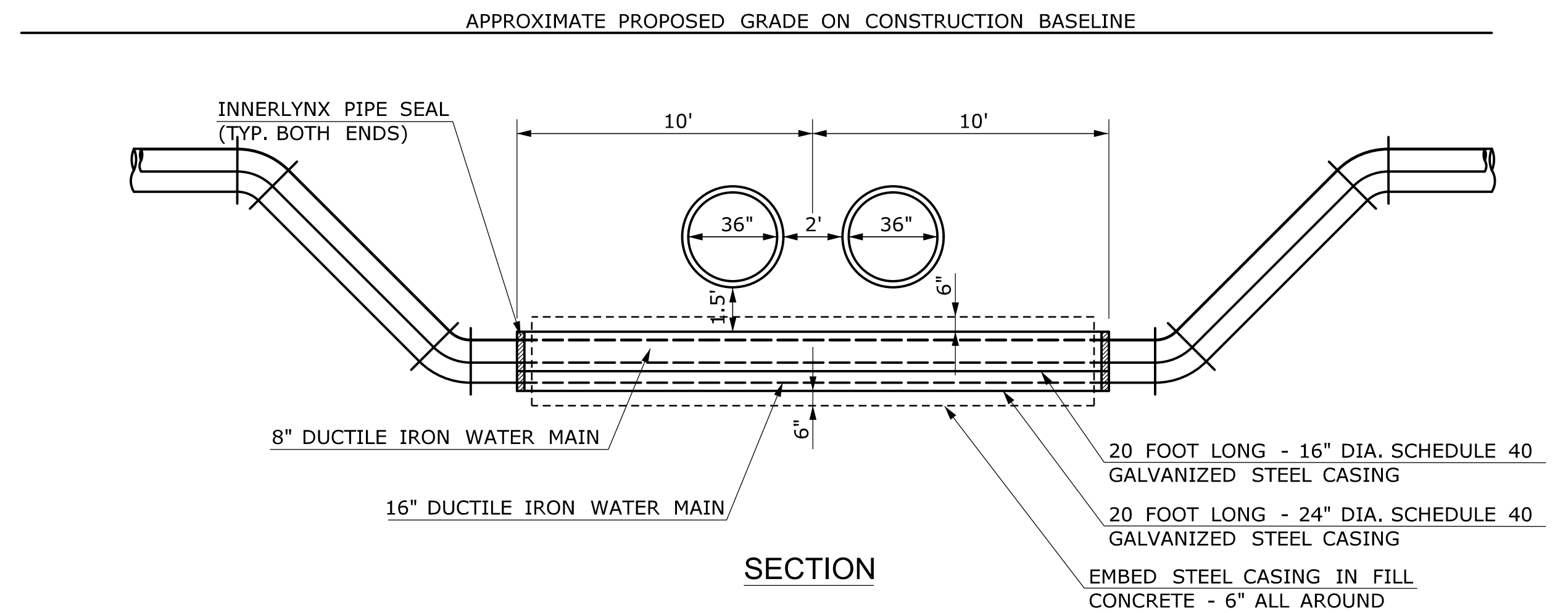
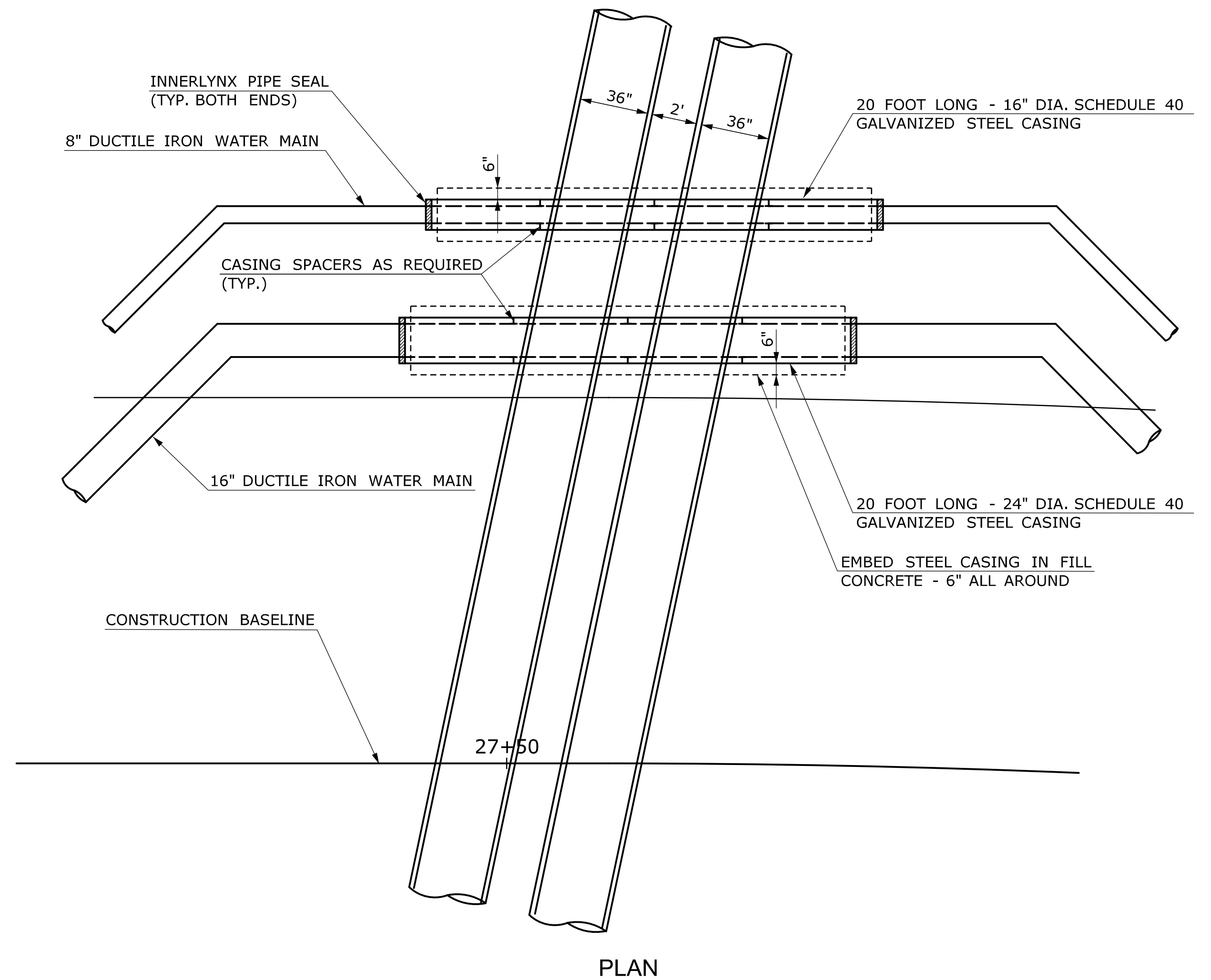




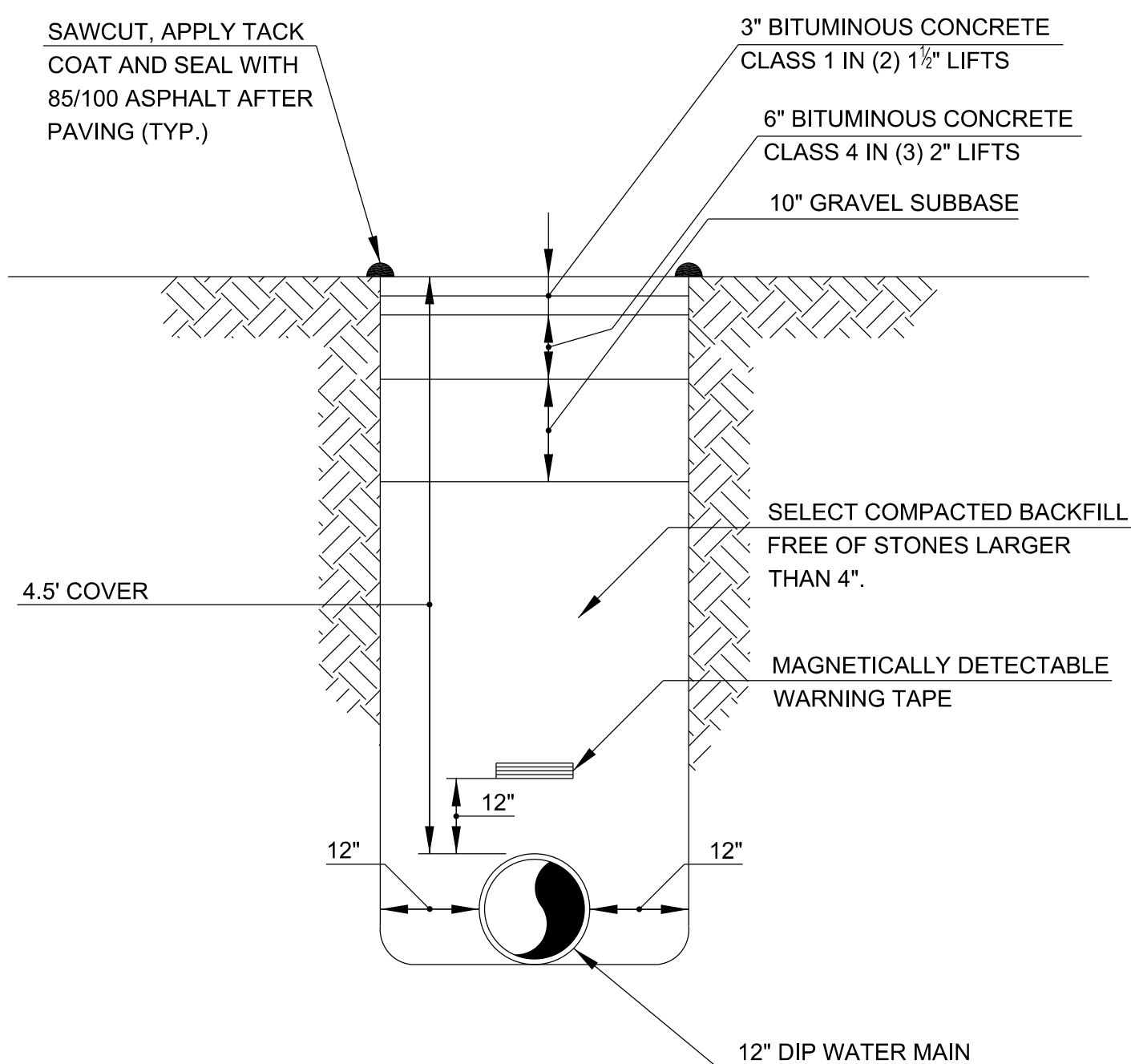
**STANDARD TRENCH  
OFF-PAVEMENT RESTORATION**  
NOT TO SCALE



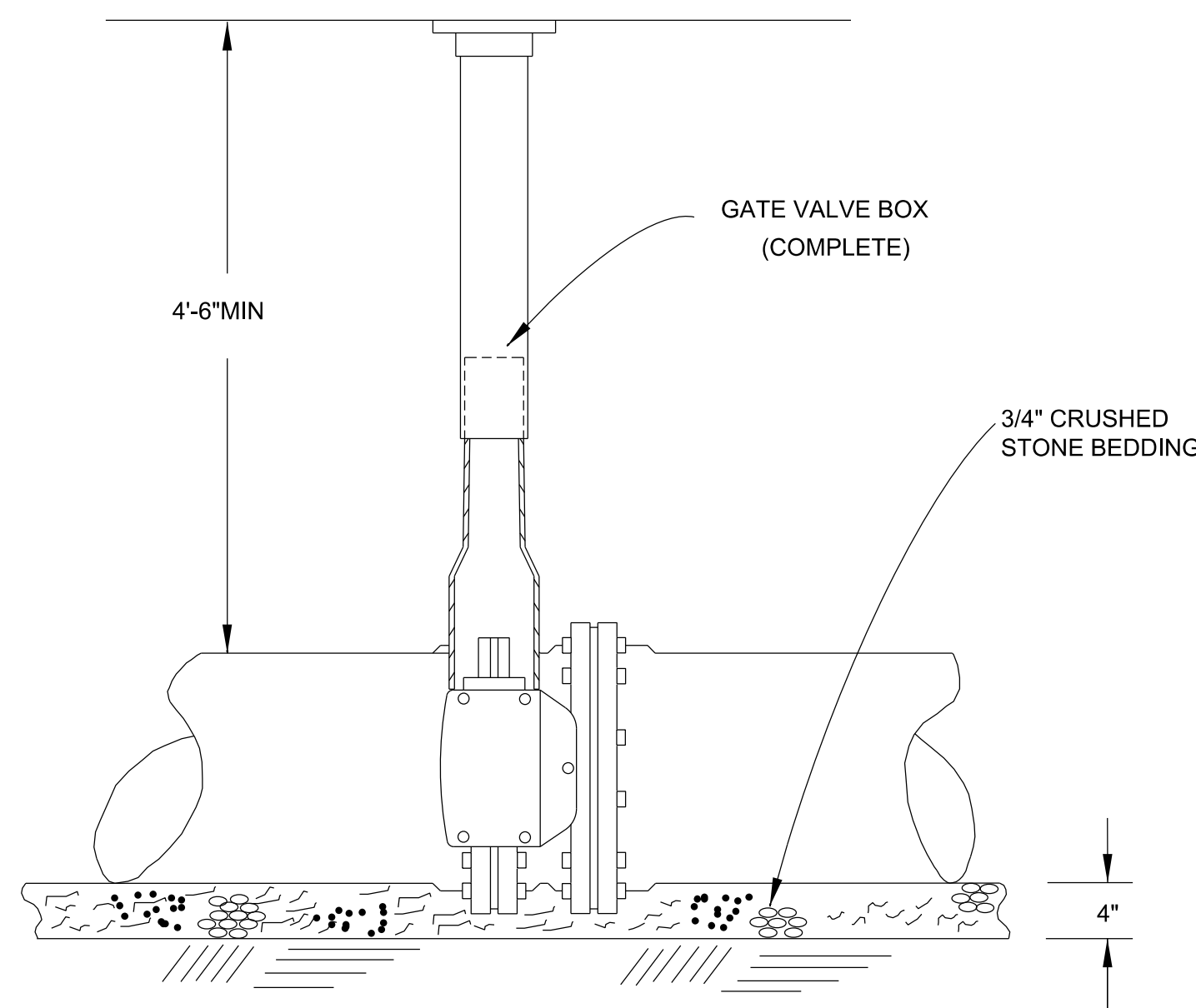
**TYPICAL MJ GATE VALVE INSTALLATION**  
NOT TO SCALE



**WATER MAIN INSTALLATION BELOW  
TWIN 36" STORM PIPES**  
NOT TO SCALE

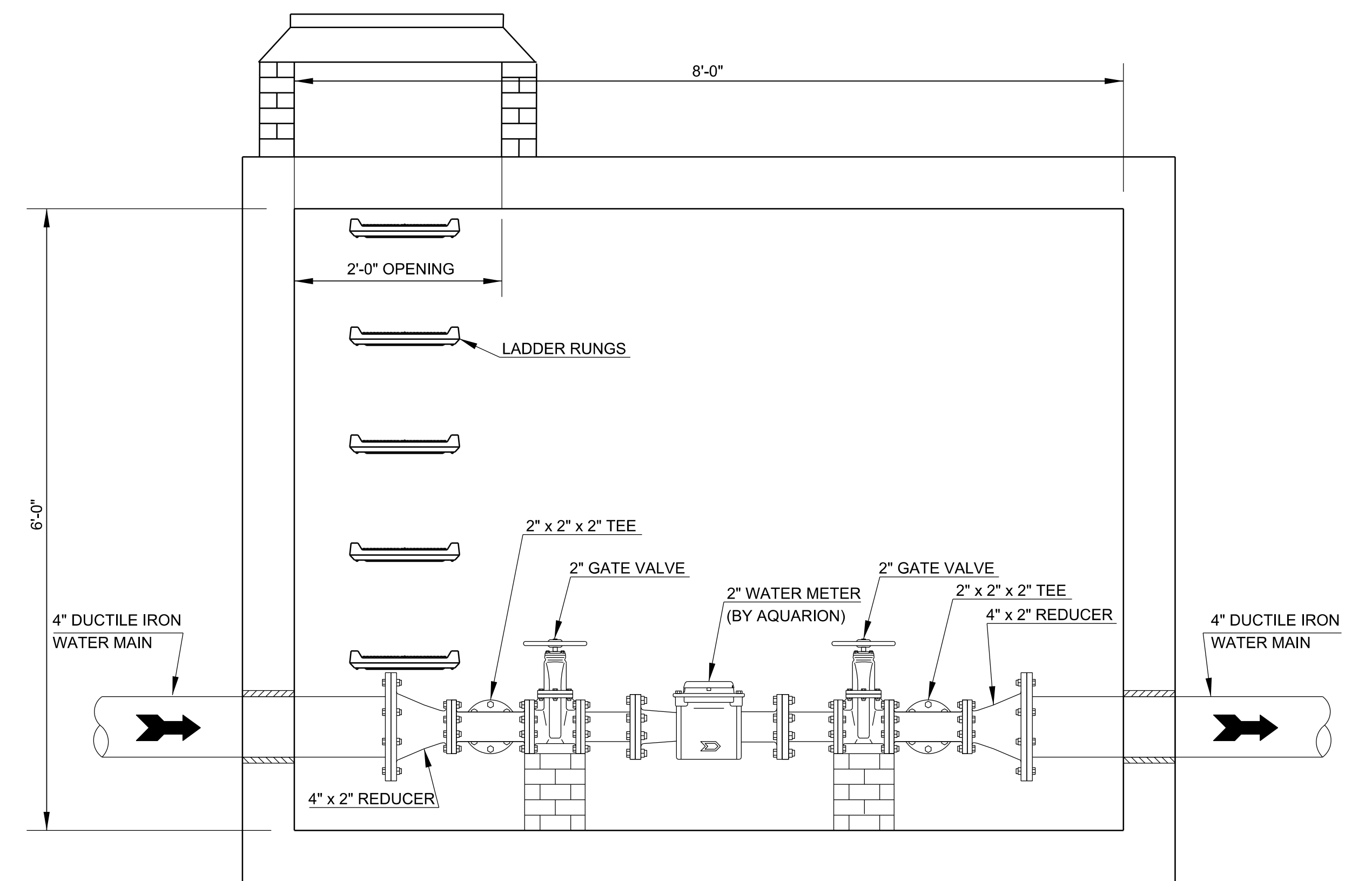
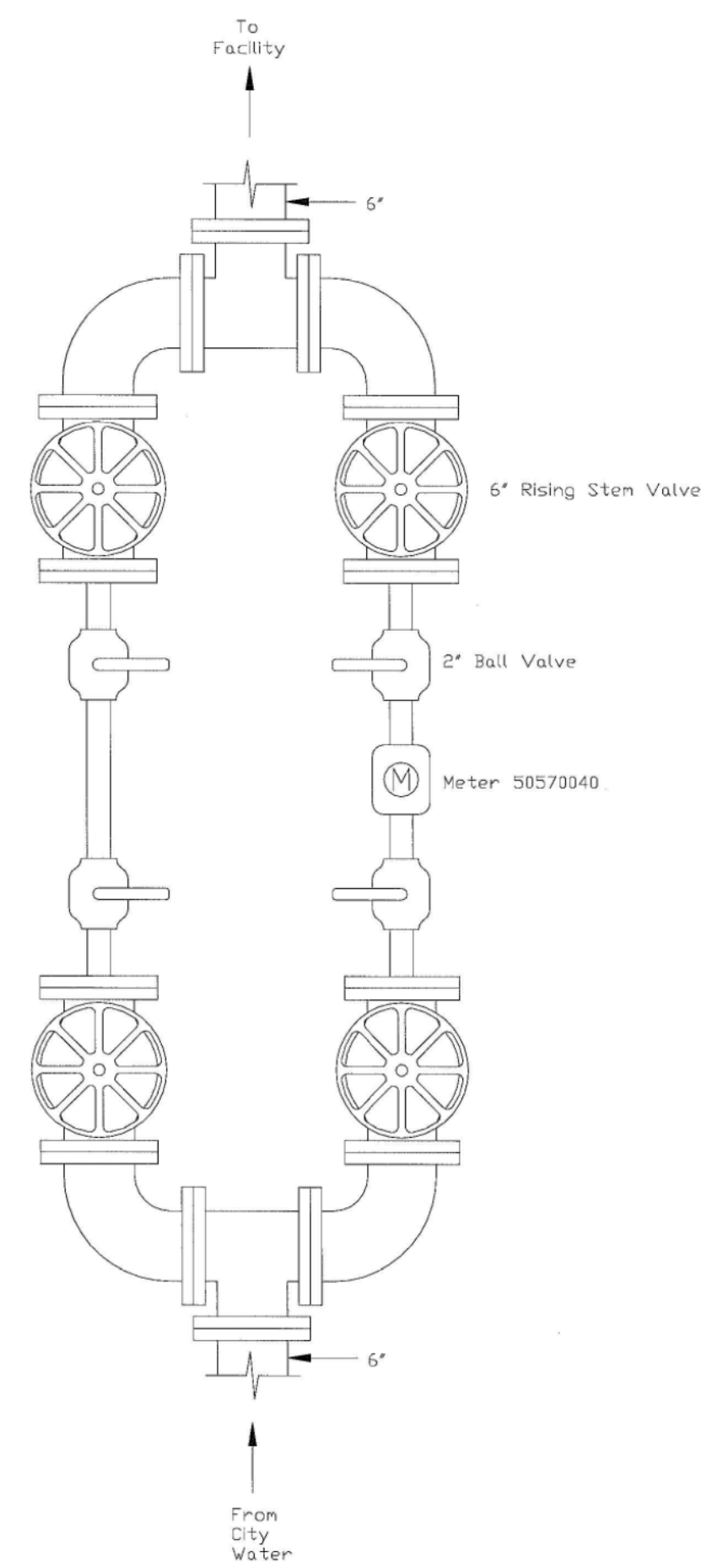


**STANDARD TRENCH WITH  
PERMANENT PAVEMENT RESTORATION**  
NOT TO SCALE

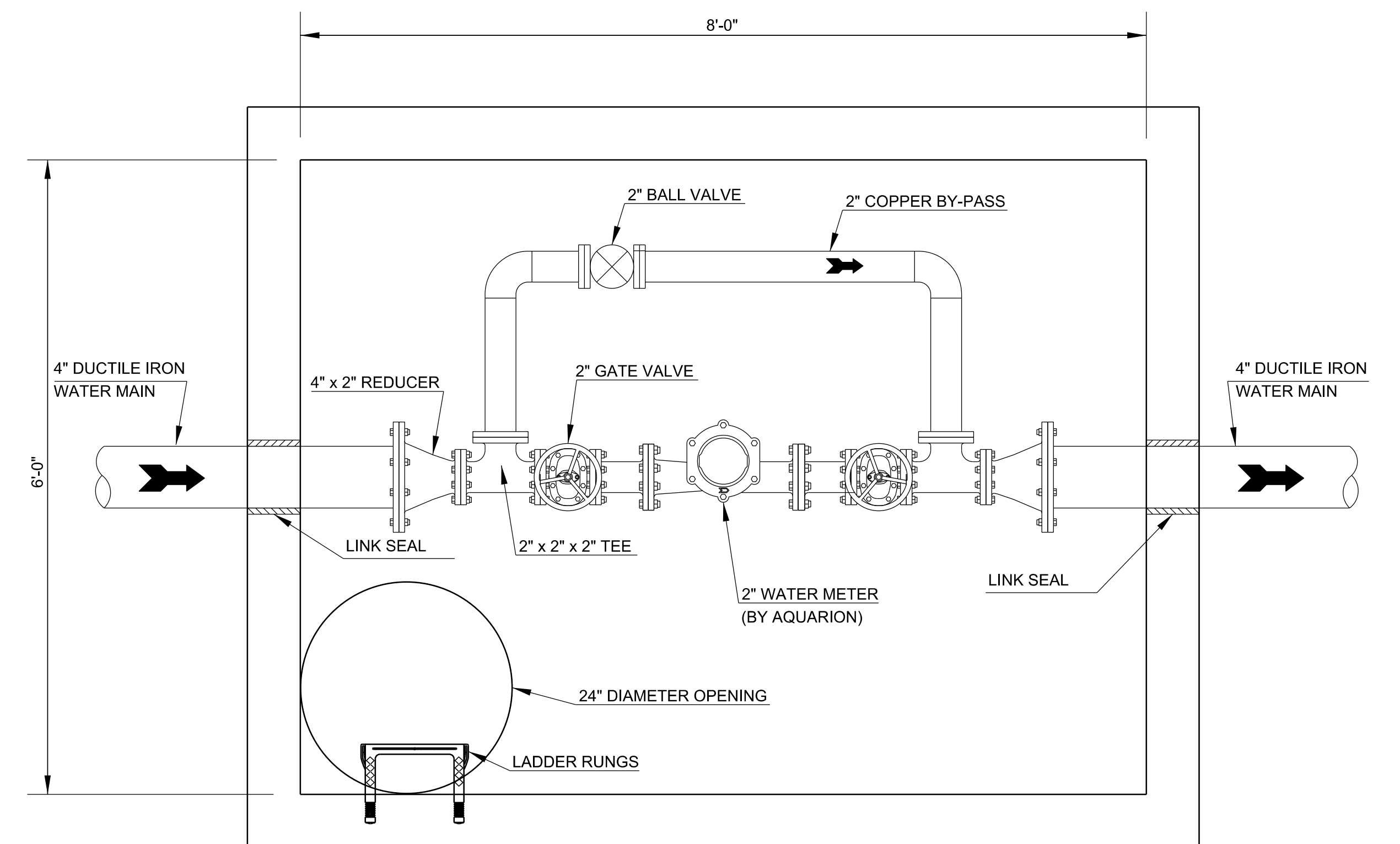


**TYPICAL MJ BUTTERFLY VALVE INSTALLATION**  
NOT TO SCALE

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER:		<div><div></div><div>AQUARION</div></div>		SIGNATURE/ BLOCK:		PROJECT TITLE:  RUNWAY SAFETY AREA PROJECT IGOR. I. SIKORSKY MEMORIAL AIRPORT		TOWN:  STRATFORD		PROJECT NO. 15-336	
					CHECKED BY:								DRAWING NO. WTR-7			
					<div><div>SCALE IN FEET</div><div><div>0</div><div>40</div><div>80</div></div><div>SCALE 1"=40'</div></div>		Filename: ...\\AWC PLANS\\AWC-07.dgn						DRAWING TITLE:  WATER DETAILS		SHEET NO.	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted: 2/5/2013												



### ELEVATION



## PLAN

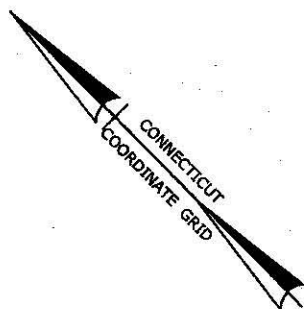
METER VAULT REPLACEMENT  
NOT TO SCALE

[illegible]



NOTES:

1. THE REMOVAL OF THE OBSTRUCTION LIGHTS SHALL BE PAID FOR AS "REMOVAL OF RUNWAY LIGHTS". THE ITEM SHALL INCLUDE REMOVING AND DISPOSING OF THE LIGHT STANDARDS AND FIXTURES. ITEM SHALL INCLUDE REMOVING ALL ASSOCIATED UNDERGROUND LIGHTING CONDUCTORS, CONDUIT, HANDHOLES AND ASSOCIATED EXCAVATION. CAPPING/CLOSING CONNECTION TO THE OTHER ELECTRICAL CIRCUITS SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR.
2. SEE UTILITY PLANS VOLUME 05 AND TYPICAL SECTIONS VOLUME 01 DRAWINGS FOR ANTICIPATED REMOVAL AND RELOCATION OF EXISTING UTILITY FACILITIES.
3. SEE DRAINAGE PLANS FOR ALL STORM WATER CONSTRUCTION DETAILS.
4. PROPOSED AIRPORT SECURITY FENCE IS TO BE LOCATED ALONG THE PROPOSED DEFINED EASEMENT ON THE RIGHT (WEST) SIDE OF PROPOSED RTE 113.
5. REMOVE EXISTING VIDEO SURVEILLANCE EQUIPMENT FROM PARKING LOT LIGHT STANDARDS AND RETURN TO STRATFORD ARMY PLANT.



Stratford Army Engine Plant  
United States of America

EXISTING BITUMINOUS  
PARKING LOT

END REMOVAL OF EXISTING FENCE  
STA. 16+19.7, 50'LT  
END REMOVAL OF M.B.R.  
END CUT OF EXISTING BITUMINOUS  
CONCRETE PAVEMENT, 50'LT

REMOVE EXISTING FENCE  
APPROX. 250'

GRASS LINED DITCH

R-B END ANCHORAGE TYPE II

SAW CUT

APPROXIMATE SLOPE  
LIMIT (TYP.)

9' SHARED USE PATH (TYP.)

Install 6" plastic hp gas main

Install 8" plastic lp gas main

Tie in new main to  
the existing lp main

Install 6" plastic hp gas main

Abandon existing  
regulator station

Install 8" plastic lp gas main

Tie in new main to  
the existing lp main

BEGIN PROJECT AIP 3-09-0002-24  
STA. 8+50  
BEGIN MILLING FOR PAVEMENT TIE-IN  
BEGIN SHARED USE PATH-LT  
BEGIN CONCRETE CURB-LT&RT  
BEGIN CONCRETE SIDEWALK-RT  
BEGIN REMOVAL M.B.R.-35'LT  
BEGIN REMOVAL OF EXISTING FENCE-LT  
MATCH EXISTING PAVEMENT, CURB, SIDEWALK  
BEGIN CUT OF EXISTING BITUMINOUS  
CONCRETE PAVEMENT, 50'LT

REMOVE EXISTING BITUMINOUS  
PAVEMENT (ARMY ENGINE  
PLANT PARKING LOT)

CURVE 1  
STRATFORD ARMY ENGINE PLANT  
MONITORING WELL TO BE  
MAINTAINED & PRESERVED

REMOVE EXISTING LIGHT STANDARD  
AND FOUNDATION. (SEE NOTE 5)

REMOVE OBSTRUCTION LIGHTS  
(SEE NOTE 1)

STA. 12+50 END  
CONCRETE CURB

PROPOSED 10' GATE

CONCRETE DRIVEWAY RAMP

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' LT.

PCC STA. 10+00.00

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

TIE EXISTING FENCE TO  
PROP. AIRPORT SECURITY  
FENCE STA. 10+70

RETAIN HYDRANT  
(B.M.-101)

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

END UNIFORM CURB TAPER  
STA. 11+00.0 -16' RT.

WATER MAIN VAULT

STA. 12+00 END  
CONCRETE CURB

TYPE B IMPACT ATTENUATION SYSTEM

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING BITUMINOUS PAVEMENT  
(ARMY ENGINE PLANT PARKING LOT)

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE EXISTING PAVEMENT  
SEE PAVEMENT REMOVAL  
DETAIL ON DRAWING TYP-2.02

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

High pressure  
gas main

Low pressure  
gas main

MATCH LINE STA. 17+00  
SEE DRAWING HWY-2.02

M.B.R. (TYPE  
R-B 350)

PROPOSED AIRPORT

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

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REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

REMOVE OBSTRUCTION  
LIGHTS (SEE NOTE 1)

DESIGNER/DRAWER:  
S. HARLEY  
CHECKED BY:  
S. MITCHELL  
SCALE IN FEET  
0 40 80  
SCALE 1"=40'

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
FILENAME: ...VW\_MSH\_015-336\_HWY-01.dgn

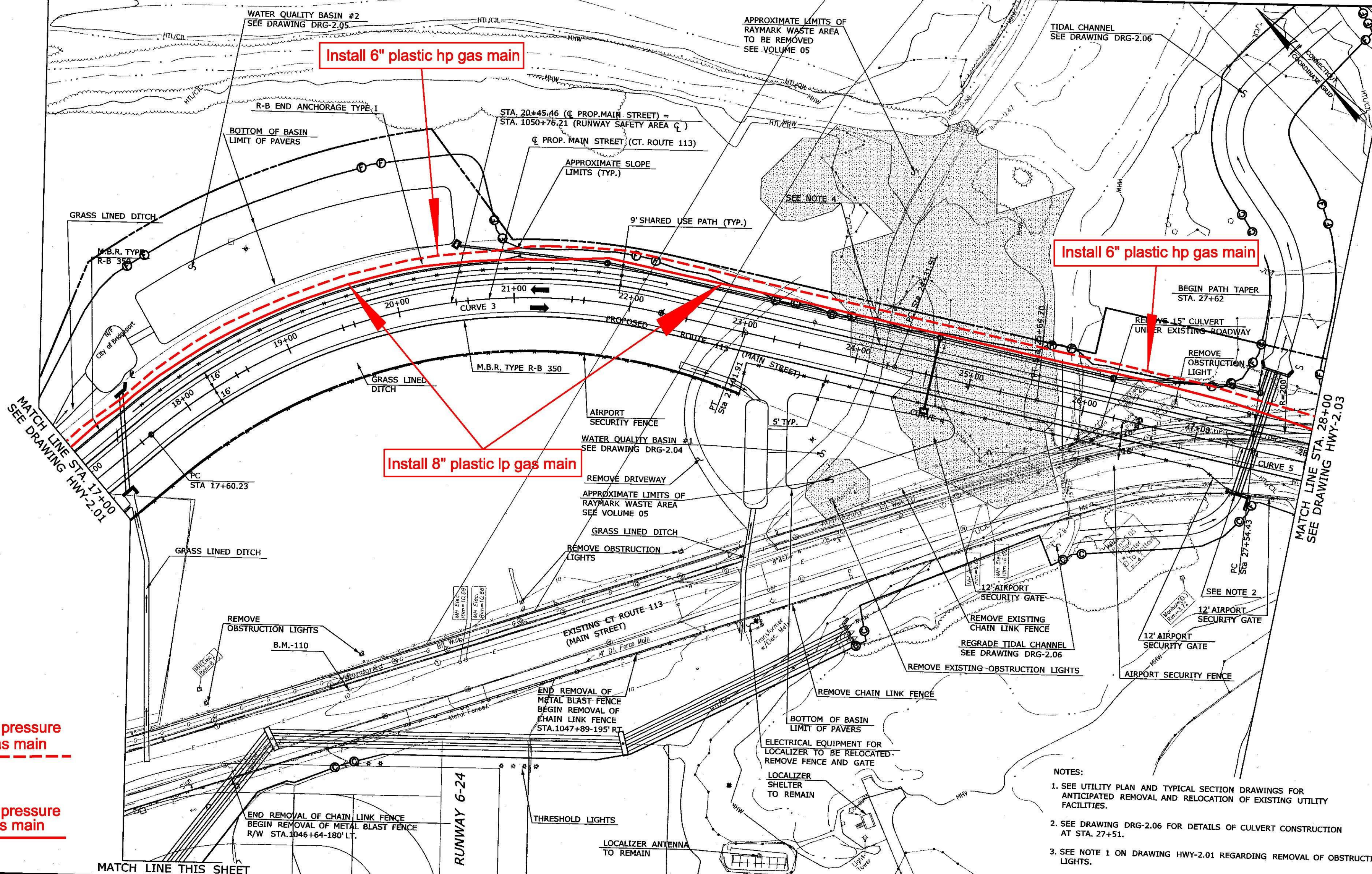
Southern Connecticut  
Gas Company  
Proposed Facility  
Relocations

PROJECT TITLE:  
RUNWAY SAFETY AREA PROJECT  
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN:  
STRATFORD  
DRAWING TITLE:  
GAS RELOCATION PLAN - 1

PROJECT NO.  
15-336  
DRAWING NO.  
GAS-5.01  
SHEET NO.





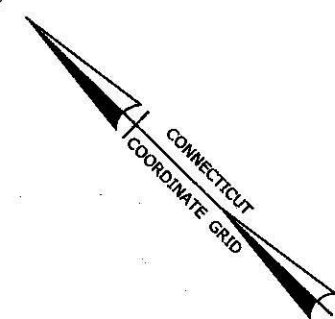
High pressure  
gas main

Low pressure  
gas main

- NOTES:
1. SEE UTILITY PLAN AND TYPICAL SECTION DRAWINGS FOR ANTICIPATED REMOVAL AND RELOCATION OF EXISTING UTILITY FACILITIES.
  2. SEE DRAWING DRG-2.06 FOR DETAILS OF CULVERT CONSTRUCTION AT STA. 27+51.
  3. SEE NOTE 1 ON DRAWING HWY-2.01 REGARDING REMOVAL OF OBSTRUCTION LIGHTS.
  4. NO DRIVEWAY APRON REQUIRED. REPLACEMENT ACCESS DRIVE SHALL BE CONSTRUCTED BY OTHERS PRIOR TO CONSTRUCTION OF PROJECT NO. 015-336.

<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>		<p>DESIGNER/DRAFTER: S. HARLEY CHECKED BY: S. MITCHELL</p>		<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>		<p>Southern Connecticut Gas Company Proposed Facility Relocations</p>		<p>PROJECT TITLE: RUNWAY SAFETY AREA PROJECT IGOR I. SIKORSKY MEMORIAL AIRPORT</p>		<p>TOWN: STRATFORD</p>		<p>PROJECT NO. 15-336</p>	
<p>REV. DATE REVISION DESCRIPTION SHEET NO.</p>		<p>Plotted: 1/31/2013</p>		<p>SCALE IN FEET 0 40 80 SCALE 1"=40'</p>		<p>Filename: ...HWY_MSH-015-336-HWY-02.dgn</p>		<p>DRAWING TITLE: GAS RELOCATION PLAN - 2</p>		<p>DRAWING NO. GAS-5.02</p>		<p>SHEET NO.</p>	





MATCH LINE STA. 28+00  
SEE DRAWING HWY-2.02

END CONSTRUCTION OF  
SHARED USE PATH  
END PATH TAPER  
MATCH EXISTING  
STA. 28+50

APPROXIMATE SLOPE  
LIMIT (TYP.)

Install 6" plastic hp gas main

END PROJECT AIP 13-09-0002-24  
END UNIFORM E.O.P. TAPER AT  
STA. 30+00.00  
N 620958.93  
E 898931.14  
END MILLING FOR PAVEMENT TIE-IN  
MATCH EXISTING PAVEMENT  
MATCH EXISTING PAVEMENT MARKINGS

Install district  
regulator station

POE  
STA. 31+26.75  
N 620832.72  
E 898936.21

EXISTING SHARED  
USE PATH

Tie in new main to  
the existing lp main

NOTES:  
1. SEE UTILITY PLAN AND TYPICAL SECTION DRAWINGS FOR  
ANTICIPATED REMOVAL AND RELOCATION OF EXISTING UTILITY  
FACILITIES.

Install 8" plastic lp gas main

LIGHT TO  
REMAIN

TYPE R-B END  
ANCHORAGE  
TYPE I

END REMOVAL OF EXISTING FENCE  
TIE PROPOSED AIRPORT SECURITY FENCE  
TO EXISTING FENCE STA. 30+00

END FULL DEPTH CONSTRUCTION  
BEGIN MILLING FOR PAVEMENT TIE-IN  
MAIN STREET (CT. ROUTE 113)  
STA. 29+80


EXISTING CT ROUTE 113 (MAIN STREET)

SHORT BEACH ROAD


REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted: 1/31/2013

DESIGNER/DRAFTER:  
S. HARLEY  
CHECKED BY:  
S. MITCHELL  
SCALE IN FEET  
0 40 80  
SCALE 1"=40'



STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION



Filename: ...\\HW\_MSH\_015-336-HWY-03.dgn

**Southern Connecticut  
Gas Company  
Proposed Facility  
Relocations**

PROJECT TITLE:  
**RUNWAY SAFETY AREA PROJECT  
IGOR I. SIKORSKY MEMORIAL AIRPORT**

TOWN:  
**STRATFORD**  
DRAWING TITLE:  
**GAS RELOCATION PLAN - 3**

PROJECT NO.  
**15-336**  
DRAWING NO.  
**GAS-5.03**  
SHEET NO.